

1876



# MAP SHOWING INCIDENCE OF CERTAIN INFECTIOUS DISEASES IN PORTSMOUTH DURING THE YEAR 1896.

HOUSES in which SCARLET FEVER have occurred marked with a RED DOT.  
do. do. TYPHOID FEVER RED CROSS  
do. do. DIPHTHERIA BLUE CROSS





1896.



Borough of Portsmouth.

---

*R E P O R T*

ON THE

Health of Portsmouth

FOR THE YEAR 1896,

BY

A. MEARNS FRASER, M.B., D.P.H.,

*Medical Officer of Health; Medical Officer of Health for the Port  
of Portsmouth; and Medical Officer to the Milton Infectious  
Diseases Hospital.*

INCLUDING THE REPORT OF THE PUBLIC ANALYST:

J. MOORE MURRAY, M.Sc., F.C.S.

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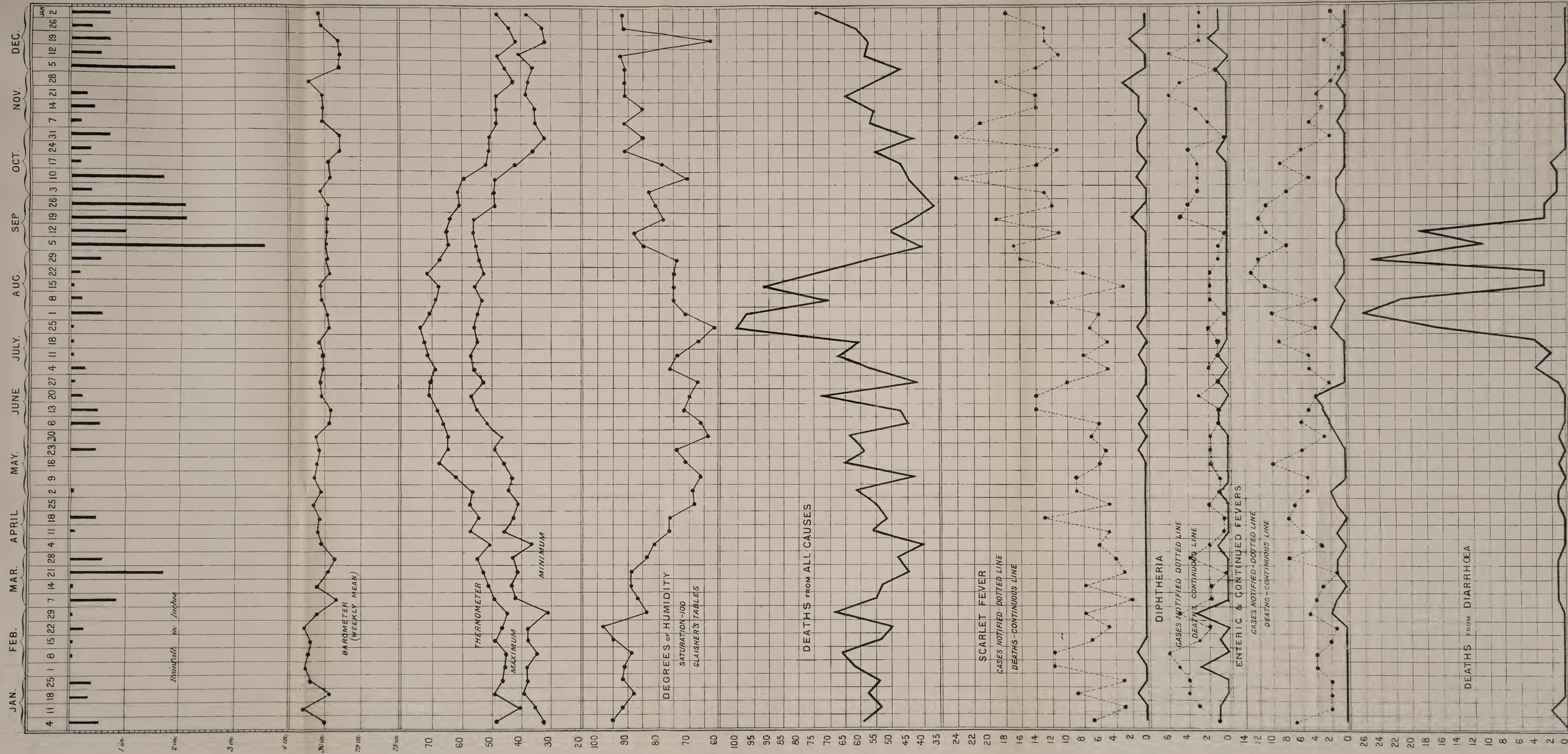
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# METEOROLOGICAL AND DISEASE CHART FOR 1896.









ABSTRACT OF METEOROLOGICAL OBSERVATIONS made at Milton Hospital during the Year 1896.

| DATE.<br>—<br>Week<br>ending | Barometer<br>reduced to<br>Sea Level<br>and 320 F. | TEMPERATURE.   |              |              |                             |               |                 |                |                                |                                |              |                |                                |      |           | Humidity,<br>Mean, 9 a.m. | Total Sunshine<br>registered by<br>Jordan's Recorder | Cloud,<br>Mean<br>Amount, 9 a.m. | WIND.           |     |      |     |      |     |      |     | RAINFALL. |  |                               |                              |       |        |     |  |  |
|------------------------------|--|----------------|--------------|--------------|-----------------------------|---------------|-----------------|----------------|--------------------------------|--------------------------------|--------------|----------------|--------------------------------|------|-----------|---------------------------|--|----------------------------------|-----------------|-----|------|-----|------|-----|------|-----|-----------|--|-------------------------------|------------------------------|-------|--------|-----|--|--|
|                              |  | IN SHADE.      |              |              |                             |               |                 |                | IN SUN.                        |                                | ON GRASS.    |                | Mean of Earth<br>below Ground. |      | Wet Bulb. |                           |  |                                  | Number of Days. |     |      |     |      |     |      |     | Total.    | No. of Days<br>0·01 inch or<br>more rainfall | Greatest fall<br>in 24 hours. | Date of<br>Greatest<br>Fall. |       |        |     |  |  |
|                              |  | Mean<br>9 a.m. | Mean<br>Max. | Mean<br>Min. | Mean of<br>Max. and<br>Min. | Mean<br>Range | Highest<br>Max. | Lowest<br>Min. | Blk. bulb<br>in vacuo<br>Mean. | Bright b.<br>in vacuo<br>Mean. | Mean<br>Min. | Lowest<br>Min. | 1ft.                           | 4ft. |           |                           |  |                                  | Mean<br>9 a.m.  | N.  | N.E. | E.  | S.E. | S.  | S.W. | W.  |           |  |                               |                              | N.W.  |        |     |  |  |
| 1896                         |  |                |              |              |                             |               |                 |                |                                |                                |              |                |                                |      |           | H.                        | M.   |                                  |                 |     |      |     |      |     |      |     |           |  |                               |                              |       |        |     |  |  |
| Jan.                         | 4...   | 30·069         | 46·5         | 49·0         | 43·1                        | 47·4          | 52·5            | 37·5           | 62·5                           | 52·7                           | 41·8         | 38·0           | 45·2                           | 47·1 | 46·1      | 95                        | 2  | 40                               | 9·1             | ... | 1    | 1   | ...  | 1   | 4    | ... | ...       | 0·40   | 3                             | 0·31                         | Dec.  | 29     |     |  |  |
| "                            | 11...  | 30·687         | 36·5         | 40·0         | 35·3                        | 37·1          | 45·0            | 31·0           | 54·3                           | 45·5                           | 30·1         | 25·0           | 40·9                           | 47·3 | 35·5      | 91                        | 2  | 20                               | 10·0            | 3   | 4    | ... | ...  | ... | ...  | ... | ...       | ...  | ...                           | ...                          | ...   | ...    | ... |  |  |
| "                            | 18...  | 29·713         | 44·4         | 48·7         | 39·6                        | 44·2          | 53·0            | 35·0           | 75·8                           | 57·0                           | 35·3         | 26·5           | 41·8                           | 46·7 | 42·7      | 87                        | 1  | 20                               | 7·0             | ... | ...  | ... | ...  | ... | 4    | ... | 3         | 0·23   | 5                             | 0·09                         | Jan.  | 13     |     |  |  |
| "                            | 25...  | 30·283         | 41·1         | 45·9         | 36·9                        | 41·4          | 50·0            | 32·0           | 71·3                           | 51·1                           | 32·1         | 24·5           | 42·2                           | 46·5 | 40·0      | 92                        | 10   | 50                               | 7·0             | ... | 3    | 1   | ...  | 1   | ...  | 2   | ...       | 0·40   | 4                             | 0·32                         | "     | 25     |     |  |  |
| Feb.                         | 1...   | 30·606         | 40·3         | 45·4         | 38·3                        | 41·8          | 51·0            | 30·0           | 76·1                           | 55·5                           | 30·3         | 21·0           | 42·0                           | 46·0 | 39·1      | 91                        | 17   | 30                               | 5·6             | 3   | ...  | ... | ...  | ... | ...  | ... | 4         | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| "                            | 8...   | 30·562         | 38·7         | 44·3         | 34·1                        | 39·2          | 52·0            | 29·0           | 67·8                           | 51·5                           | 28·6         | 21·0           | 39·9                           | 45·4 | 37·4      | 89                        | 5  | 50                               | 8·3             | 2   | ...  | 1   | 2    | 1   | ...  | ... | 1         | 0·06   | 1                             | 0·06                         | Feb.  | 8      |     |  |  |
| "                            | 15...  | 30·442         | 42·4         | 49·4         | 39·8                        | 44·6          | 53·0            | 37·0           | 80·5                           | 59·5                           | 37·3         | 32·5           | 44·1                           | 45·3 | 42·1      | 95                        | 11   | 40                               | 8·0             | ... | 2    | 3   | ...  | ... | 1    | 1   | ...       | 0·04   | 2                             | 0·02                         | "     | 9 & 12 |     |  |  |
| "                            | 22...  | 30·683         | 40·3         | 46·5         | 37·5                        | 42·0          | 52·0            | 30·5           | 82·7                           | 58·5                           | 35·9         | 28·0           | 43·4                           | 46·0 | 39·1      | 93                        | 10   | 35                               | 9·0             | ... | 3    | 1   | 1    | 1   | ...  | ... | 1         | 0·21   | 3                             | 0·13                         | "     | 20     |     |  |  |
| "                            | 29...  | 30·252         | 37·1         | 44·8         | 30·5                        | 37·7          | 56·0            | 24·0           | 91·4                           | 60·9                           | 26·5         | 19·0           | 39·8                           | 45·7 | 35·6      | 84                        | 35   | 20                               | 3·0             | ... | 4    | 1   | ...  | ... | ...  | 1   | 1         | 0·02   | 1                             | 0·02                         | "     | 29     |     |  |  |
| March                        | 7...   | 29·553         | 44·5         | 49·9         | 42·2                        | 46·1          | 52·0            | 38·0           | 94·1                           | 64·6                           | 36·7         | 32·0           | 43·6                           | 45·3 | 43·6      | 87                        | 17   | 50                               | 7·0             | ... | ...  | ... | ...  | ... | 6    | 1   | ...       | 0·88   | 7                             | 0·26                         | Mar.  | 2      |     |  |  |
| "                            | 14...  | 30·071         | 47·2         | 51·1         | 42·9                        | 47·0          | 56·0            | 37·0           | 86·1                           | 63·7                           | 35·5         | 29·0           | 46·8                           | 45·8 | 45·9      | 89                        | 11   | 10                               | 8·6             | ... | ...  | ... | 2    | 2   | ...  | 2   | ...       | 1  | 0·03                          | 2                            | 0·02  | "      | 11  |  |  |
| "                            | 21...  | 29·999         | 46·6         | 52·1         | 41·0                        | 46·5          | 56·0            | 34·0           | 98·2                           | 67·9                           | 38·0         | 27·0           | 46·3                           | 46·8 | 45·2      | 89                        | 19   | 0                                | 8·0             | ... | ...  | ... | 3    | ... | 3    | ... | 1         | 1·61   | 7                             | 0·99                         | "     | 20     |     |  |  |
| "                            | 28...  | 29·888         | 48·9         | 55·4         | 43·6                        | 49·5          | 61·5            | 39·5           | 111·7                          | 74·7                           | 37·6         | 31·5           | 49·4                           | 47·5 | 46·2      | 84                        | 49   | 20                               | 3·0             | ... | 2    | ... | 2    | ... | 1    | ... | 2         | 0·50   | 7                             | 0·20                         | "     | 27     |     |  |  |
| April                        | 4...   | 30·116         | 44·8         | 50·4         | 37·0                        | 43·7          | 53·0            | 33·0           | 104·9                          | 68·8                           | 31·1         | 26·5           | 45·9                           | 47·9 | 40·7      | 82                        | 24   | 55                               | 7·0             | 4   | 3    | ... | ...  | ... | ...  | ... | ...       | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| "                            | 11...  | 30·219         | 52·5         | 58·5         | 46·3                        | 52·4          | 62·5            | 45·0           | 113·7                          | 77·3                           | 41·8         | 36·0           | 50·1                           | 47·8 | 48·5      | 76                        | 23   | 35                               | 8·4             | 1   | 3    | ... | ...  | ... | ...  | ... | 3         | 0·12   | 2                             | 0·11                         | April | 10     |     |  |  |
| "                            | 18...  | 30·157         | 47·6         | 54·1         | 42·3                        | 48·2          | 58·0            | 38·0           | 111·4                          | 73·8                           | 36·5         | 31·0           | 48·9                           | 48·9 | 42·0      | 76                        | 20   | 50                               | 8·1             | ... | ...  | ... | ...  | ... | 2    | 1   | 4         | 0·43   | 6                             | 0·18                         | "     | 14     |     |  |  |
| "                            | 25...  | 30·318         | 52·6         | 58·8         | 40·9                        | 49·8          | 64·0            | 36·0           | 115·1                          | 77·9                           | 34·4         | 27·0           | 51·7                           | 49·6 | 47·6      | 68                        | 44   | 50                               | 4·0             | 1   | 2    | 2   | 1    | ... | ...  | 1   | ...       | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| May                          | 2...   | 30·057         | 51·5         | 57·1         | 44·1                        | 50·7          | 64·0            | 35·0           | 121·1                          | 79·1                           | 39·1         | 28·5           | 53·5                           | 50·5 | 46·6      | 69                        | 44   | 20                               | 6·3             | ... | 3    | ... | ...  | ... | 4    | ... | ...       | 0·09   | 3                             | 0·08                         | April | 30     |     |  |  |
| "                            | 9...   | 30·295         | 52·0         | 62·6         | 41·8                        | 52·3          | 68·5            | 36·5           | 123·3                          | 84·0                           | 34·8         | 28·0           | 52·9                           | 51·0 | 46·4      | 67                        | 60   | 0                                | 4·1             | ... | 6    | ... | ...  | ... | 1    | ... | ...       | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| "                            | 16...  | 30·247         | 60·1         | 68·4         | 45·9                        | 57·2          | 73·5            | 42·0           | 123·5                          | 88·0                           | 40·4         | 38·0           | 58·3                           | 52·1 | 55·0      | 71                        | 62   | 40                               | 1·7             | ... | 4    | ... | 1    | ... | ...  | ... | 2         | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| "                            | 23...  | 30·100         | 56·2         | 64·1         | 49·6                        | 56·8          | 68·0            | 39·0           | 121·8                          | 85·1                           | 43·4         | 33·0           | 58·0                           | 53·6 | 51·9      | 74                        | 42   | 35                               | 8·0             | 2   | 1    | ... | 2    | ... | 1    | ... | 1         | 0·45   | 2                             | 0·30                         | May   | 22     |     |  |  |
| "                            | 30...  | 30·265         | 57·7         | 65·1         | 47·5                        | 56·3          | 69·0            | 44·0           | 125·7                          | 87·0                           | 42·4         | 38·0           | 58·6                           | 54·1 | 51·1      | 64                        | 61   | 45                               | 4·4             | ... | 7    | ... | ...  | ... | ...  | ... | ...       | ...  | ...                           | ...                          | ...   | ...    |     |  |  |
| June                         | 6...   | 29·881         | 63·5         | 67·8         | 51·0                        | 59·4          | 71·5            | 44·0           | 129·5                          | 86·2                           | 43·8         | 35·5           | 63·9                           | 55·4 | 57·1      | 65                        | 73   | 15                               | 3·4             | ... | ...  | ... | 3    | 1   | 2    | 1   | ...       | 0·52   | 3                             | 0·40                         | June  | 4      |     |  |  |
| "                            | 13...  | 29·744         | 62·1         | 69·1         | 55·6                        | 62·3          | 77·0            | 53·5           | 128·5                          | 89·2                           | 53·6         | 49·0           | 63·8                           | 57·1 | 58·3      | 72                        | 44   | 15                               | 6·3             | ... | 1    | ... | 1    | ... | 3    | ... | 2         | 0·57   | 4                             | 0·30                         | "     | 9      |     |  |  |
| "                            | 20...  | 30·018         | 66·4         | 70·8         | 57·4                        | 64·9          | 81·0            | 54·0           | 132·6                          | 93·4                           | 52·0         | 45·0           | 68·2                           | 58·3 | 60·6      | 70                        | 60   | 55                               | 5·0             | ... | 2    | ... | ...  | 1   | 3    | 1   | ...       | 0·18   | 1                             | 0·18                         | "     | 17     |     |  |  |
| "                            | 27...  | 30·134         | 63·3         | 70·1         | 52·4                        | 61·3          | 74·0            | 48·0           | 131·0                          | 92·0                           | 44·7         | 40·0           | 66·2                           | 59·9 | 57·4      | 67                        | 49   | 50                               | 6·0             | 1   | 1    | ... | ...  | ... | 3    | ... | 2         | 0·08   | 2                             | 0·07                         | "     | 25     |     |  |  |
| July                         | 4...   | 30·064         | 62·3         | 69·9         | 56·4                        | 63·1          | 77·5            | 53·0           | 126·6                          | 89·6                           | 49·5         | 42·0           | 64·5                           | 60·0 | 56·9      | 72                        | 43   | 31                               | 7·6             | ... | ...  | ... | ...  | ... | 1    | 2   | 4         | 0·24   | 4                             | 0·09                         | "     | 28     |     |  |  |
| "                            | 11...  | 30·066         | 66·8         | 71·8         | 56·9                        | 64·3          | 81·4            | 52·0           | 133·1                          | 94·0                           | 50·8         | 44·0           | 69·1                           | 60·5 | 60·8      | 69                        | 58   | 0                                | 3·4             | ... | ...  | ... | 1    | 3   | 2    | ... | 1         | 0·00   | ...                           | ...                          | ...   | ...    |     |  |  |
| "                            | 18...  | 30·157         | 64·8         | 72·6         | 54·8                        | 63·7          | 79·0            | 49·5           | 129·9                          | 93·4                           | 48·5         | 41·5           | 69·2                           | 61·9 | 58·6      | 67                        | 55   | 0                                | 4·0             | ... | 2    | ... |      |     |      |     |           |  |                               |                              |       |        |     |  |  |





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# Drainage and Sanitary Committee.

(1895-6)

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THE WORSHIPFUL THE MAYOR, J. J. YOUNG, ESQ., J.P

Chairman—

ALDERMAN SIR WILLIAM PINK, J.P., K.L.H.

Vice-Chairman—

ALDERMAN THOMAS KING, J.P.

---

ALDERMAN ROBERT BARNES, J.P.

|            |                     |            |                     |
|------------|---------------------|------------|---------------------|
| COUNCILLOR | G. ASHDOWNE         | COUNCILLOR | H. I. EVANS         |
| „          | J. BAGGS            | „          | J. W. GIEVE         |
| „          | T. E. BASKETT       | „          | H. KIMBER           |
| „          | H. BLESSLEY         | „          | J. MULVANY, L.R.C.P |
| „          | J. DUMMER           | „          | G. J. MERRITT       |
| „          | W. T. DUPREE        | „          | H. R. PINK          |
| „          | R. EMMETT, L.R.C.P. | „          | G. YOUNG            |



# Officers of the Medical Officer of Health's Department

Medical Officer of Health—

A. MEARNS FRASER, M.B., D.P.H.

Inspector of Nuisances—

F. L. BELL, CERT. SAN. INST.

Inspector C.D.A. Act, and Inspector of Nuisances—

G. W. MONKCOM

Clerk—

C. W. HEARN

Inspectors of Nuisances—

H. J. LOVELOCK, CERT. SAN. INST.

H. G. GRAY, CERT. SAN. INST.

W. H. TURNER, CERT. SAN. INST.

G. L. SCOTT, CERT. SAN. INST.

G. W. McQUINN, CERT. SAN. INST.

Inspector of Workshops and Inspector of Nuisances

W. E. BENJAMIN, CERT. SAN. INST.

Assistant Clerk—

T. V. SMITH

Disinfector—

A. AYLMER

---

## Infectious Diseases Hospital.

Matron—

MRS. M. A. ANTRAM



Report  
of the  
Medical Officer of Health  
to the  
Urban Sanitary Authority  
of the  
Borough of Portsmouth

For the Year ending the 31st day of December, 1896.



GENTLEMEN,

I have the honour to submit to you my Annual Report for the year 1896, comprising the statistical returns of the Deaths in the Borough, the measures adopted for the prevention of disease, and the work done in the Sanitary Department.

I am pleased to be able to state that during this year the health of the town has been good, and that (with the exception of an outbreak of measles during the second and third quarters) there has been no serious epidemic of infectious disease; also in the table of corrected death-rates of the large towns of England, prepared by the Registrar-General, Portsmouth occupies the fourth place, ranking after West Ham, Croydon, and Brighton.

During the past twelve months progress in the Sanitation of the Borough has been effected, and I trust that during 1897 still greater improvement may be accomplished—especially I trust that success will attend your efforts to improve House Drainage and the Disposal of Refuse.

I desire to express my sincere thanks for the kindness and courtesy I have at all times received from Members of the Sanitary Committee, and for their consideration during the time I was unfortunately confined to my house by an attack of scarlet fever. I also take this opportunity of expressing my appreciation of the careful and efficient manner in which their duties have been performed by the Sanitary Staff.

I have the honour to be, Gentlemen,

Your obedient Servant,

**A. MEARNS FRASER, M.B., D.P.H.,**

*Medical Officer of Health.*



## Statistics.

—:O:—

**POPULATION.**—The population of the Borough in the middle of 1896, estimated on the supposition that it has increased from 1891 at the same rate of increase as in the period 1881 to 1891, is 178,612. This estimate, in all probability, is considerably under the true population, which, I believe, will be found to be nearer 187,610—a number founded on a report supplied to me by Mr. Baxter, the Assistant Overseer, who reports the number of occupied houses to be 34,739, this is multiplied by 5·4, the average number of persons in each house in 1891. The figures 178,612, however, are those used by the Registrar-General, and I have therefore adopted them in my Report. At the same time, it is well to bear in mind that our death rates, birth rates and sickness rates being based on the smaller figures are represented (if my view is correct) a trifle higher than is actually the case.

The mean density of the population is 39·8 persons to the acre, an increase of 4·3 persons per acre since 1891. In the thirty-three large towns—including London—the average number of persons to an acre is 35·4. The populations of the various districts were as follows :—Portsmouth, 6,839 ; Portsea, 14,989 ; Kingston, 68,279 ; Landport, 71,363 ; Southsea, 17,169.

**BIRTHS.**—The number of Births registered was 5,006, being 138 in excess of those of the preceding year, and gives a birth rate per 1,000 of 28·03, which is slightly higher than that



of last year—27·84. The birth rate of the thirty-three large towns is 30·7. The illegitimate births numbered 190, which forms 3·8 per cent. of the total number registered; the mean percentage of illegitimate births for the past ten years is 3·3.

The births were reported in the four quarters as follows :

|                                 |   |     |     | Legitimate |      | Illegitimate |    |
|---------------------------------|---|-----|-----|------------|------|--------------|----|
|                                 |   |     |     | M          | F    | M            | F  |
| First quarter ending March 28th | — | 579 | 593 | —          | 35   | 25           |    |
| Second „ „ June 27th            | — | 607 | 577 | —          | 19   | 26           |    |
| Third „ „ September 26th        | — | 599 | 525 | —          | 21   | 20           |    |
| Fourth „ „ January 2nd          | — | 702 | 636 | —          | 19   | 25           |    |
|                                 |   |     |     | —          | —    | —            | —  |
|                                 |   |     |     | 2485       | 2331 | 94           | 96 |
|                                 |   |     |     | 4816       |      | 190          |    |

And in the various sub-districts thus :

|            |   |      |                          |       |           |
|------------|---|------|--------------------------|-------|-----------|
| Portsmouth | — | 157  | equal to a birth-rate of | 23·95 | per 1000. |
| Portsea    | — | 358  | „ „ „ „                  | 25·88 | „ „       |
| Kingston   | — | 2243 | „ „ „ „                  | 33·86 | „ „       |
| Landport   | — | 2078 | „ „ „ „                  | 29·11 | „ „       |
| Southsea   | — | 170  | „ „ „ „                  | 9·89  | „ „       |

Portsea Island Union is situated in Kingston sub-district, in it there occurred 67 births.

**MARRIAGES.**—1,581 marriages took place during 1896, which thus numbers 149 more than in the previous year; and gives a marriage rate of 17·90, against that of 16·38 for 1895. Interest attaches itself to these figures from the fact that an increased marriage rate usually indicates an increase in the prosperity of a community. Marriages occurred in the four quarters as follows :



|               |   |     |               |   |     |
|---------------|---|-----|---------------|---|-----|
| First quarter | — | 276 | Third quarter | — | 422 |
| Second „      | — | 405 | Fourth „      | — | 478 |

**DEATHS.**—The deaths registered numbered 3,030, less by 99 than in the previous year, and the death-rate for the Borough is 16·96 ; this is slightly lower than that of the previous year, which was 17·90, and considerably lower than the death-rate for the thirty-three large towns of England, which is 20·45. On two occasions only has the recorded death-rate been lower than that of 1896, in 1889 and 1894, when it was respectively 16·71 and 15·16. In the table prepared by the Registrar-General of the thirty-three large towns, Portsmouth occupies the fourth place, the death-rates—as will be seen from Table III.—varying from 14·82 at Croydon, to 25·65 at Manchester.

**THE DEATH-RATES** for the four quarters of 1896 were as follows :

|               |   |                |
|---------------|---|----------------|
| First quarter | — | 15·98 per 1000 |
| Second „      | — | 15·72 „        |
| Third „       | — | 18·96 „        |
| Fourth „      | — | 16·95 „        |

The increase in the death-rate during the third quarter was due to measles and the usual summer diarrhœa.

Comparing the death-rates from particular diseases, it will be seen that the death-rates in Portsmouth, from the principal Zymotic diseases, are lower than in the 33 large towns.

|                | Measles | Scarlet<br>Fever | Diph-<br>theria | Whooping<br>Cough | Fever | Diarr-<br>hœa | Infantile<br>Mortality |
|----------------|---------|------------------|-----------------|-------------------|-------|---------------|------------------------|
| Portsmouth     | 0·69    | 0·11             | 0·11            | 0·32              | 0·15  | 0·73          | 154                    |
| 33 large towns | 0·71    | 0·22             | 0·38            | 0·57              | 0·19  | 0·79          | 167                    |



**THE ZYMOTIC DEATH-RATE** of the 33 large towns is 2·86, and in Portsmouth is 2·11. From the above table it will be seen that though the death-rates from Scarlet Fever, Diphtheria, and Whooping Cough are considerably below those of the 33 large towns, yet in Measles and Fever we are very little better ; but in considering the death-rate from Fever, it is gratifying to find that this, which is one of the most certain indicators of sanitary progress, has steadily declined from 13·8 in 1860, to 0·19 in 1896. This fact is one that must prove most encouraging to the Sanitary Authority, and at the same time urge them to the still further advancement of the health of the Borough.

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TABLE I.

Table, showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1896, and the ten preceding years.

GROSS NUMBERS.

| Year                      | Estimated Population | No. of Inhabited Houses | Marriages | Registered Births | Correct No. of Deaths |              |               |
|---------------------------|----------------------|-------------------------|-----------|-------------------|-----------------------|--------------|---------------|
|                           |                      |                         |           |                   | Total all Ages        | Under 1 Year | Under 5 Years |
| 1896                      | 178,612              | 34,739                  | 1,581     | 5,006             | 3,030                 | 785          | 1,156         |
| 1895                      | 174,751              | 34,230                  | 1,432     | 4,868             | 3,129                 | 856          | 1,169         |
| 1894                      | 170,973              | 31,377                  | 1,462     | 4,709             | 2,593                 | 611          | 967           |
| 1893                      | 167,285              | 30,984                  | 1,459     | 4,708             | 3,058                 | 763          | 1,171         |
| 1892                      | 163,667              | 30,305                  | 1,464     | 4,563             | 3,026                 | 719          | 1,068         |
| 1891                      | 160,128              | 29,544                  | 1,429     | 4,803             | 3,053                 | 665          | 1,143         |
| 1890                      | 156,667              | 28,875                  | 1,318     | 4,881             | 2,847                 | 648          | 941           |
| 1889                      | 153,279              | 28,206                  | 1,460     | 4,943             | 2,565                 | 697          | 1,036         |
| 1888                      | 149,966              | 27,539                  | 1,358     | 4,976             | 2,614                 | 671          | 988           |
| 1887                      | 146,724              | 26,873                  | 1,395     | 5,004             | 2,681                 | 725          | 1,053         |
| 1886                      | 143,552              | 26,204                  | 1,471     | 4,918             | 3,257                 | 885          | 1,461         |
| Average ten years 1886-95 | 158,699              | 29,413                  | 14,248    | 4,837             | 2,882                 | 724          | 1,099         |

NOTES.

- 1.—Population at Census, 1891
- ...
- ...
- ...
- 159,255
- 2.—Area in Acres
- ...
- ...
- ...
- 4,486
- 3.—Average number of persons in each house at Census
- ...
- 5.4
- 4.—Average number of persons per acre at Census
- ...
- 35.5



**TABLE II.**

Table, showing the Annual Birth Rate, Rate of Mortality, and Death Rates  
among Children for the year 1896 and 10 Years preceding.

| Years                               | Birth Rate<br>per 1000<br>of the<br>Population | Annual<br>Rate of<br>Mortality<br>per 1000<br>living from<br>all causes. | Annual<br>Rate of<br>Mortality<br>per 1000<br>living from<br>7 principal<br>Zymotic<br>Diseases. | Deaths of<br>Children<br>under 1 year<br>Percentage<br>of Total<br>Deaths. | Percentage<br>of Deaths of<br>Children<br>under 1 year<br>to Registered<br>Births | Deaths of<br>Children<br>under 5 years<br>Percentage<br>of Total<br>Deaths. |
|-------------------------------------|--|--|--|--|---|---|
| 1896                                | 28.03  | 16.96  | 2.27   | 25.9   | 15.68   | 38.1  |
| 1895                                | 27.84  | 17.90  | 2.31   | 27.3   | 17.6  | 37.5  |
| 1894                                | 27.54  | 15.16  | 2.07   | 23.5   | 12.9  | 37.3  |
| 1893                                | 28.14  | 18.28  | 3.09   | 24.9   | 16.4  | 38.3  |
| 1892                                | 27.88  | 18.49  | 1.89   | 20.4   | 15.5  | 35.3  |
| 1891                                | 29.90  | 19.06  | 2.49   | 21.7   | 13.8  | 37.4  |
| 1890                                | 30.15  | 18.16  | 1.69   | 22.5   | 13.5  | 32.7  |
| 1889                                | 31.25  | 16.71  | 1.95   | 27.1   | 14.1  | 40.3  |
| 1888                                | 33.18  | 17.43  | 1.33   | 25.6   | 13.4  | 37.5  |
| 1887                                | 34.10  | 18.27  | 2.24   | 27.0   | 14.3  | 39.2  |
| 1886                                | 34.26  | 22.68  | 4.87   | 27.1   | 17.0  | 44.6  |
| Average of<br>10 years<br>1886-1895 | 30.42  | 18.21  | 2.39   | 24.7   | 14.8  | 38.0  |

**TABLE III.**

Showing the Population, Birth Rates, Recorded Death Rates, Corrected Death Rates, Zymotic Rates and Deaths under 1 Year to 1,000 Births in the 33 large Towns for the Year 1896.

| NAME OF TOWNS           | Estimated Population middle of 1896. | PER 1,000 LIVING. |                     |                      | ZYMOTIC DEATH RATE |             |               |             |                |             |             |             | Deaths of Children under 1 year of age to 1,000 Births |
|-------------------------|--------------------------------------|-------------------|---------------------|----------------------|--------------------|-------------|---------------|-------------|----------------|-------------|-------------|-------------|--|
|                         |                                      | Birth Rate        | Recorded Death Rate | Corrected Death Rate | Small Pox          | Measles     | Scarlet Fever | Diphtheria  | Whooping Cough | Fever       | Diarrhoea   | Total       |  |
| 33 Towns                | 10,846,971                           | 30·7              | 18·91               | 20·45                | 0·00               | 0·71        | 0·22          | 0·38        | 0·57           | 0·19        | 0·79        | 2·86        | 167  |
| 32 Prov'nc'l T'wns      | 6,425,016                            | 31·1              | 18·44               | 20·73                | 0·00               | 0·67        | 0·15          | 0·22        | 0·45           | 0·21        | 0·77        | 2·46        | 168  |
| <b>CROYDON</b> .....    | 118,006                              | 25·1              | 14·22               | 14·82                | ...                | 0·56        | 0·04          | 0·24        | 0·52           | 0·15        | 0·43        | 1·94        | 150  |
| <b>BRIGHTON</b> .....   | 120,499                              | 24·7              | 16·13               | 16·31                | ...                | 0·45        | 0·05          | 0·16        | 0·26           | 0·11        | 0·60        | 1·63        | 135  |
| <b>NORWICH</b> .....    | 108,630                              | 30·8              | 17·38               | 16·65                | ...                | 1·06        | 0·04          | 0·22        | 0·08           | 0·19        | 0·74        | 2·33        | 164  |
| <b>PORTSMOUTH</b>       | <b>178,639</b>                       | <b>27·6</b>       | <b>16·57</b>        | <b>16·94</b>         | ...                | <b>0·69</b> | <b>0·11</b>   | <b>0·11</b> | <b>0·32</b>    | <b>0·15</b> | <b>0·73</b> | <b>2·11</b> | <b>154</b>   |
| <b>DERBY</b> .....      | 101,770                              | 28·0              | 15·65               | 17·26                | ...                | 0·33        | 0·11          | 0·10        | 0·52           | 0·20        | 0·65        | 1·91        | 151  |
| <b>WEST HAM</b> .....   | 261,297                              | 32·6              | 16·07               | 17·34                | 0·02               | 0·44        | 0·21          | 0·70        | 0·59           | 0·23        | 0·81        | 3·00        | 165  |
| <b>BRISTOL</b> .....    | 230,623                              | 27·6              | 16·90               | 17·66                | 0·02               | 0·61        | 0·25          | 0·16        | 0·26           | 0·08        | 0·52        | 1·90        | 142  |
| <b>LEICESTER</b> .....  | 198,659                              | 30·8              | 16·72               | 18·15                | ...                | 0·60        | 0·25          | 0·32        | 0·25           | 0·20        | 1·35        | 2·97        | 187  |
| <b>SWANSEA</b> .....    | 98,645                               | 30·5              | 16·85               | 18·41                | 0·02               | 0·06        | 0·04          | 0·10        | 0·56           | 0·15        | 0·25        | 1·18        | 161  |
| <b>CARDIFF</b> .....    | 162,690                              | 33·8              | 16·84               | 18·79                | 0·02               | 0·23        | 0·17          | 0·37        | 0·63           | 0·08        | 0·77        | 2·27        | 165  |
| <b>NOTTINGHAM</b> ..... | 229,775                              | 28·9              | 17·50               | 18·82                | ...                | 0·88        | 0·11          | 0·06        | 0·39           | 0·34        | 0·69        | 2·47        | 168  |
| <b>BRADFORD</b> .....   | 228,809                              | 25·5              | 16·51               | 18·90                | 0·00               | 0·46        | 0·10          | 0·07        | 0·45           | 0·12        | 0·38        | 1·58        | 143  |
| <b>BURNLEY</b> .....    | 102,805                              | 31·0              | 17·51               | 20·11                | ...                | 0·60        | 0·04          | 0·46        | 0·27           | 0·12        | 0·70        | 2·19        | 170  |
| <b>PLYMOUTH</b> .....   | 90,276                               | 28·8              | 19·57               | 19·02                | ...                | 1·04        | 0·03          | 0·14        | 0·19           | 0·07        | 0·83        | 2·30        | 178  |
| <b>HUDDERSFIELD</b> ... | 100,463                              | 20·5              | 16·47               | 19·15                | ...                | 0·27        | 0·19          | 0·21        | 0·54           | 0·13        | 0·26        | 1·60        | 166  |
| <b>HALIFAX</b> .....    | 94,775                               | 24·3              | 17·33               | 19·29                | ...                | 0·17        | ...           | 0·22        | 0·34           | 0·21        | 0·16        | 1·10        | 149  |
| <b>LONDON</b> .....     | 4,421,955                            | 30·2              | 18·58               | 19·80                | 0·00               | 0·82        | 0·21          | 0·60        | 0·65           | 0·14        | 0·72        | 3·14        | 161  |
| <b>HULL</b> .....       | 220,844                              | 31·9              | 18·91               | 19·86                | ...                | 1·16        | 0·25          | 0·23        | 0·50           | 0·28        | 0·90        | 3·32        | 173  |
| <b>BLACKBURN</b> .....  | 129,459                              | 27·7              | 17·87               | 20·07                | ...                | 0·31        | 0·07          | 0·08        | 0·36           | 0·26        | 0·74        | 1·82        | 171  |
| <b>BIRKENHEAD</b> ...   | 109,343                              | 31·7              | 19·19               | 21·10                | ...                | 1·04        | 0·29          | 0·20        | 0·53           | 0·23        | 0·68        | 2·91        | 177  |
| <b>NEWCASTLE</b> .....  | 212,223                              | 31·1              | 18·46               | 20·11                | ...                | 0·64        | 0·12          | 0·18        | 0·48           | 0·15        | 0·51        | 2·08        | 165  |
| <b>GATESHEAD</b> .....  | 98,436                               | 35·8              | 19·09               | 20·50                | ...                | 1·37        | 0·26          | 0·18        | 0·35           | 0·22        | 0·72        | 3·10        | 172  |
| <b>LEEDS</b> .....      | 402,449                              | 30·7              | 18·75               | 20·78                | 0·00               | 0·49        | 0·17          | 0·12        | 0·60           | 0·21        | 0·69        | 2·28        | 169  |
| <b>SUNDERLAND</b> ..... | 140,386                              | 34·2              | 19·82               | 20·80                | ...                | 1·00        | 0·19          | 0·06        | 0·53           | 0·37        | 0·85        | 3·00        | 158  |
| <b>WOLVERHAMPTON</b>    | 86,530                               | 34·4              | 19·95               | 20·88                | ...                | 0·10        | 0·24          | 0·60        | 0·35           | 0·41        | 1·41        | 3·11        | 184  |
| <b>SHEFFIELD</b> .....  | 347,278                              | 34·0              | 19·26               | 21·42                | ...                | 0·57        | 0·29          | 0·16        | 0·58           | 0·29        | 1·02        | 2·91        | 173  |
| <b>PRESTON</b> .....    | 113,864                              | 32·6              | 20·76               | 22·82                | ...                | 0·03        | 0·03          | 0·10        | 0·37           | 0·22        | 1·11        | 1·86        | 203  |
| <b>BIRMINGHAM</b> ..... | 501,241                              | 32·6              | 20·81               | 23·00                | ...                | 0·60        | 0·29          | 0·53        | 0·74           | 0·21        | 1·20        | 3·57        | 197  |
| <b>OLDHAN</b> .....     | 143,442                              | 27·2              | 20·27               | 23·22                | ...                | 1·15        | 0·38          | 0·24        | 0·36           | 0·16        | 0·62        | 2·91        | 184  |
| <b>BOLTON</b> .....     | 120,380                              | 31·3              | 20·73               | 23·49                | ...                | 0·05        | 0·33          | 0·11        | 0·83           | 0·39        | 1·09        | 2·80        | 168  |
| <b>LIVERPOOL</b> .....  | 632,512                              | 34·9              | 22·74               | 24·97                | ...                | 0·48        | 0·35          | 0·24        | 0·46           | 0·32        | 1·16        | 3·01        | 173  |
| <b>SALFORD</b> .....    | 210,707                              | 34·9              | 22·64               | 25·46                | ...                | 0·94        | 0·49          | 0·23        | 0·88           | 0·33        | 1·23        | 4·10        | 199  |
| <b>MANCHESTER</b> ..... | 529,561                              | 33·0              | 22·64               | 25·65                | ...                | 1·06        | 0·37          | 0·15        | 0·67           | 0·23        | 0·94        | 3·42        | 176  |



TABLE IV.

Deaths Registered at several groups of Ages from different classes of Diseases during the year (53 Weeks), 1896.

| CAUSE OF DEATH.  | AGES.  |        |         |          |          |          |          |          |          |          |          | DISTRICTS.  |            |          |          |           | Totals |           |
|--|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|------------|----------|----------|-----------|--------|-----------|
|  | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85 | 85 and over | Port-mouth | Port-sea | Kingston | Land-port |        | South-sea |
| Classes  |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| I.—ZYMOTIC DISEASES                                    | 199    | 177    | 22      | 12       | 13       | 15       | 11       | 2        | 6        | 3        | ...      | ...         | 15         | 28       | 224      | 180       | 15     | 462       |
| II.—PARASITIC DISEASES                                 | 1      | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...      | 1        | ...       | ...    | 1         |
| III.—DIETIC DISEASES                                   | ...    | ...    | ...     | ...      | ...      | 4        | 1        | 1        | 1        | 1        | ...      | ...         | ...        | ...      | 5        | 2         | 1      | 8         |
| IV.—CONSTITUTIONAL DISEASES                            | 63     | 37     | 46      | 63       | 74       | 74       | 70       | 27       | 35       | 21       | ...      | ...         | 15         | 46       | 251      | 188       | 43     | 543       |
| V.—DEVELOPMENTAL DISEASES                              | 113    | 1      | ...     | ...      | ...      | ...      | ...      | ...      | 80       | 132      | 53       | ...         | 10         | 13       | 222      | 118       | 18     | 381       |
| VI.—LOCAL DISEASES                                     | 276    | 134    | 36      | 64       | 164      | 123      | 152      | 94       | 215      | 117      | 21       | ...         | 47         | 121      | 582      | 533       | 111    | 1394      |
| VII.—DEATHS FROM VIOLENCE                              | 16     | 12     | 4       | 8        | 8        | 15       | 13       | 5        | 6        | 3        | 2        | ...         | 11         | 4        | 48       | 31        | 4      | 98        |
| VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES | 117    | 10     | ...     | 1        | 1        | 3        | 2        | 1        | 6        | 1        | ...      | ...         | 1          | 16       | 55       | 60        | 11     | 143       |
| TOTALS   | 785    | 371    | 108     | 148      | 160      | 234      | 249      | 130      | 349      | 278      | 76       | ...         | 99         | 288      | 1388     | 1112      | 203    | 3030      |
| Class I. ZYMOTIC DISEASES—                             |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Order 1.—Miasmatic Diseases                            |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Measles  | 27     | 97     | 1       | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | 10         | 7        | 51       | 55        | 3      | 126       |
| Scarlet Fever  | 1      | 9      | 8       | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | 1        | 14       | 4         | ...    | 19        |
| Whooping Cough   | 24     | 36     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | 2          | 4        | 23       | 29        | 2      | 60        |
| Diphtheria   | ...    | 15     | 4       | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | 3        | 13       | 4         | ...    | 20        |
| Continued Fever  | ...    | ...    | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...      | 1        | ...       | ...    | 1         |
| Enteric or Typhoid Fever                               | ...    | 4      | 6       | 8        | 3        | 5        | 1        | ...      | ...      | ...      | ...      | ...         | ...        | 2        | 14       | 10        | 1      | 27        |
| Influenza  | 1      | 2      | 3       | 1        | 1        | 3        | 3        | ...      | 4        | ...      | ...      | ...         | ...        | 1        | 10       | 5         | 3      | 19        |
| Order 2.—Diarrhœal Diseases                            |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Diarrhœa, Dysentery                                    | 138    | 12     | ...     | 1        | 1        | 1        | ...      | 1        | ...      | 2        | ...      | ...         | 2          | 8        | 76       | 68        | 3      | 157       |
| Order 3.—Malarial Diseases                             |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Remittent Fever  | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...         | ...        | ...      | 1        | ...       | ...    | 1         |
| Order 4.—Venereal Diseases                             |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Syphilis   | 6      | ...    | ...     | 1        | ...      | 2        | 1        | ...      | ...      | ...      | ...      | ...         | ...        | 1        | 8        | ...       | 1      | 10        |
| Gonorrhœa, Stricture of Urethra                        | ...    | ...    | ...     | ...      | ...      | 1        | 3        | ...      | 1        | ...      | ...      | ...         | ...        | ...      | 4        | ...       | 1      | 5         |
| Order 5.—Septic Diseases                               |        |        |         |          |          |          |          |          |          |          |          |             |            |          |          |           |        |           |
| Erysipelas   | 2      | 2      | ...     | ...      | 1        | ...      | 2        | ...      | 1        | ...      | ...      | ...         | 1          | ...      | 4        | 3         | ...    | 8         |
| Pyœmia, Septicœmia                                     | ...    | ...    | ...     | ...      | 2        | ...      | ...      | 1        | ...      | 1        | ...      | ...         | ...        | 1        | 3        | ...       | ...    | 4         |
| Puerperal Fever  | ...    | ...    | ...     | ...      | 3        | 2        | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...      | 2        | 2         | 1      | 5         |

[illegible]



TABLE IV.—(Continued).

| CAUSE OF DEATH  | AGES.  |        |         |          |          |          |          |          |          |          | DISTRICTS |             |            |         |          | Totals |          |          |
|---|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|-----------|-------------|------------|---------|----------|--------|----------|----------|
|   | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85  | 85 and over | Portsmouth | Portsea | Kingston |        | Landport | Southsea |
| LOCAL DISEASES—Continued.   |        |        |         |          |          |          |          |          |          |          |           |             |            |         |          |        |          |          |
| Insanity, General Paralysis of the Insane                             | ...    | ...    | ...     | 1        | ...      | 2        | ...      | 2        | ...      | 1        | ...       | ...         | ...        | ...     | 6        | ...    | ...      | 6        |
| Epilepsy ...  | ...    | ...    | 1       | 6        | ...      | 4        | 2        | 1        | ...      | ...      | ...       | ...         | ...        | 3       | 6        | 4      | 1        | 14       |
| Convulsions   | 63     | 11     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...       | ...         | 2          | 9       | 20       | 41     | 2        | 74       |
| Laryngismus Stridulus (Spasm of Glottis) ...                          | 4      | ...    | 1       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...       | ...         | ...        | 2       | 1        | 2      | ...      | 5        |
| Diseases Spinal Cord, Paraplegia                                      |        |        |         |          |          |          |          |          |          |          |           |             |            |         |          |        |          |          |
| Paralysis, Agitans ...  | 2      | ...    | 2       | ...      | 1        | 1        | 5        | ...      | 2        | 2        | 1         | ...         | 1          | 1       | 10       | 2      | 2        | 16       |
| Other Diseases of Nervous System                                      | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...       | ...         | ...        | ...     | ...      | ...    | 1        | 1        |
| Order 2.—Diseases of Organs of Special Sense (e.g. of Ear, Eye, Nose) | ...    | ...    | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...       | ...         | 1          | ...     | ...      | ...    | ...      | 1        |
| Order 3.—Diseases of Circulatory System—                              |        |        |         |          |          |          |          |          |          |          |           |             |            |         |          |        |          |          |
| Pericarditis  | ...    | ...    | ...     | 1        | ...      | ...      | 1        | ...      | ...      | ...      | ...       | ...         | ...        | ...     | 1        | 1      | ...      | 2        |
| Acute Endocarditis  | ...    | ...    | 1       | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...       | ...         | ...        | 1       | 1        | ...    | ...      | 2        |
| Valvular Disease of Heart   | ...    | ...    | 1       | 1        | 5        | 6        | 6        | 2        | 5        | 6        | 4         | 1           | 1          | 3       | 24       | 5      | 4        | 37       |
| Other Diseases of Heart   | 8      | 2      | 5       | 13       | 13       | 26       | 33       | 26       | 21       | 57       | 28        | 2           | 10         | 19      | 94       | 89     | 22       | 234      |
| Aneurism ...  | ...    | ...    | ...     | 1        | 1        | ...      | 1        | 1        | 1        | 1        | ...       | ...         | ...        | 2       | 2        | 1      | 1        | 6        |
| Embolism ...  | ...    | ...    | ...     | 1        | 1        | ...      | ...      | ...      | ...      | ...      | ...       | ...         | ...        | ...     | 2        | ...    | ...      | 2        |
| Other Diseases of Blood Vessels                                       | 2      | ...    | ...     | ...      | ...      | ...      | 2        | 1        | ...      | ...      | ...       | ...         | 1          | ...     | 2        | 1      | 1        | 5        |
| Order 4.—Diseases of Respiratory System—                              |        |        |         |          |          |          |          |          |          |          |           |             |            |         |          |        |          |          |
| Laryngitis ...  | ...    | 1      | 2       | 1        | ...      | ...      | ...      | 1        | ...      | ...      | ...       | ...         | 1          | 1       | 3        | ...    | ...      | 5        |
| Croup   | 1      | 3      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...       | ...         | ...        | ...     | 2        | 2      | ...      | 4        |
| Empheysema, Asthma...   | 1      | ...    | 1       | ...      | ...      | 1        | 2        | 1        | 2        | 7        | ...       | ...         | 1          | ...     | 5        | 6      | 2        | 15       |
| Bronchitis...   | 63     | 42     | ...     | 1        | 6        | 5        | 9        | 15       | 15       | 49       | 31        | 10          | 5          | 22      | 96       | 108    | 15       | 246      |
| Pneumonia   | 14     | 11     | 2       | 7        | 10       | 15       | 12       | 5        | 2        | 8        | 6         | ...         | 2          | 5       | 36       | 42     | 7        | 92       |
| Pleurisy ...  | ...    | 2      | ...     | ...      | ...      | 2        | 2        | ...      | ...      | 1        | 3         | ...         | ...        | ...     | 4        | 6      | ...      | 10       |
| Other Diseases of Respiratory System                                  | 25     | 26     | 3       | 1        | 3        | 3        | 6        | 1        | 4        | 4        | 3         | 2           | 2          | 7       | 33       | 37     | 2        | 81       |
| Order 5.—Diseases of Digestive System                                 |        |        |         |          |          |          |          |          |          |          |           |             |            |         |          |        |          |          |
| Dentition ...   | 29     | 1      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...       | ...         | 3          | 1       | 10       | 15     | 1        | 30       |







**SUMMARY OF TABLE IV.**

| CLASS. | DISEASES.                                      | NUMBER OF DEATHS. |
|--------|--|-------------------|
| I.     | ZYMOTIC DISEASES—                              |                   |
|        | 1. Miasmatic Diseases ... ..                   | 272               |
|        | 2. Diarrhœal Diseases ... ..                   | 157               |
|        | 3. Malarial Diseases ... ..                    | 1                 |
|        | 4. Zoogenous Diseases ... ..                   | —                 |
|        | 5. Venereal Diseases ... ..                    | 15                |
|        | 6. Sceptic Diseases ... ..                     | 17                |
| II.    | PARASITIC DISEASES ... ..                      | 1                 |
| III.   | DIETIC DISEASES ... ..                         | 8                 |
| IV.    | CONSTITUTIONAL DISEASES ... ..                 | 543               |
| V.     | DEVELOPMENTAL DISEASES ... ..                  | 381               |
| VI.    | LOCAL DISEASES—                                |                   |
|        | 1. Diseases of the Nervous System ... ..       | 329               |
|        | 2. „ Organs of Special Sense ... ..            | 1                 |
|        | 3. „ Circulatory System ... ..                 | 288               |
|        | 4. „ Respiratory System ... ..                 | 453               |
|        | 5. „ Digestive System ... ..                   | 197               |
|        | 6. „ Lymphatic System ... ..                   | —                 |
|        | 7. „ Gland-like Organs of Uncertain Use ... .. | 2                 |
|        | 8. „ Urinary System ... ..                     | 102               |
|        | 9. „ Reproductive System—                      |                   |
|        | (a) Organs of Generation ... ..                | 1                 |
|        | (b) Parturition ... ..                         | 9                 |
|        | 10. „ Bones and Joints ... ..                  | 10                |
|        | 11. „ Integumentary System ... ..              | 1                 |
| VII.   | VIOLENCE—                                      |                   |
|        | 1. Accident or Negligence ... ..               | 77                |
|        | 2. Homicide ... ..                             | 2                 |
|        | 3. Suicide ... ..                              | 19                |
| VIII.  | ILL-DEFINED AND NOT SPECIFIED CAUSES ... ..    | 143               |



TABLE V.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending March 28th, 1896.

| CAUSE OF DEATH. | AGES                               |        |         |          |          |          |          |          |          |          | DISTRICTS. |             |             |         |          | Totals |           |           |     |
|-----------------|------------------------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------|------------|-------------|-------------|---------|----------|--------|-----------|-----------|-----|
|                 | 0 to 1                             | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85   | 85 and over | Ports-mouth | Portsea | Kingston |        | Land-port | South-sea |     |
| Class I.        | ZYMOTIC DISEASES—                  |        |         |          |          |          |          |          |          |          |            |             |             |         |          |        |           |           |     |
|                 | Order 1—Miasmatic Diseases—        |        |         |          |          |          |          |          |          |          |            |             |             |         |          |        |           |           |     |
|                 | ...                                | 2      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 2        | ...    | ...       | 2         |     |
|                 | ...                                | 16     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 13       | 12     | 1         | 30        |     |
|                 | ...                                | 6      | 3       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 8        | 1      | ...       | 9         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |     |
|                 | ...                                | 1      | 1       | ...      | ...      | 1        | 1        | ...      | ...      | ...      | ...        | ...         | ...         | 1       | 1        | 2      | ...       | 4         |     |
|                 | ...                                | ...    | 2       | ...      | ...      | 1        | 1        | ...      | 1        | ...      | ...        | ...         | ...         | ...     | 3        | 2      | 1         | 6         |     |
|                 | ...                                | 4      | ...     | ...      | ...      | ...      | ...      | ...      | 1        | ...      | ...        | ...         | ...         | ...     | 3        | 2      | 1         | 6         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 2        | ...    | ...       | 3         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 2        | ...    | ...       | ...       |     |
|                 | ...                                | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 118       |     |
|                 | ...                                | 33     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 71       | 32     | 4         | 117       |     |
|                 | ...                                | 69     | 43      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 165      | 140    | 31        | 367       |     |
|                 | ...                                | 8      | 2       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 10       | 17     | 1         | 24        |     |
|                 | ...                                | 27     | 1       | ...      | ...      | ...      | 2        | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 17       | 10     | 3         | 32        |     |
|                 | VIII.—NOT SPECIFIED OR ILL-DEFINED |        |         |          |          |          |          |          |          |          |            |             |             |         |          |        |           |           |     |
|                 | TOTALS                             | 168    | 80      | 30       | 38       | 30       | 54       | 52       | 32       | 42       | 84         | 84          | 30          | 24      | 42       | 348    | 257       | 53        | 724 |

# TABLE VI.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending June 27th, 1896.

| CAUSE OF DEATH.                      | AGES.  |        |         |          |          |          |          |          |          |          |          | DISTRICTS.  |            |         |          |          | Totals |           |
|--------------------------------------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|------------|---------|----------|----------|--------|-----------|
|                                      | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85 | 85 and over | Portsmouth | Portsea | Kingston | Landport |        | South-sea |
| Class I.                             |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| ZYMOTIC DISEASES—                    |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| Order 1— <i>Miasmatic Diseases</i>   |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| Measles ...                          | 13     | 35     | 1       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | 10         | 2       | 12       | 23       | 2      | 49        |
| Scarlet Fever ...                    | 1      | 7      | 3       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | 4        | 3        | 1      | 4         |
| Whooping Cough ...                   | 2      | 1      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | 5        | 1        | ...    | 9         |
| Diphtheria...                        | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | ...      | ...      | ...    | 1         |
| Typhoid Fever ...                    | ...    | 1      | 3       | 2        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | 1       | 3        | 2        | ...    | 6         |
| Influenza ...                        | ...    | ...    | 1       | 1        | ...      | ...      | 2        | ...      | ...      | 1        | ...      | ...         | ...        | ...     | 4        | ...      | 1      | 5         |
| Order 2— <i>Diarrhoeal Diseases</i>  |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| Diarrhoea, Dysentery ...             | 3      | 1      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | 1          | 2       | 1        | 1        | ...    | 5         |
| Order 5— <i>Venereal Diseases</i>    |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| Syphilis ...                         | 2      | ...    | ...     | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | 1       | 1        | ...      | 1      | 3         |
| Gonorrhoea, Stricture of Urethra ... | ...    | ...    | ...     | ...      | ...      | 1        | 1        | ...      | ...      | ...      | ...      | ...         | ...        | ...     | 2        | ...      | ...    | 2         |
| Order 6— <i>Septic Diseases</i>      |        |        |         |          |          |          |          |          |          |          |          |             |            |         |          |          |        |           |
| Erysipelas ...                       | ...    | ...    | ...     | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | 1        | ...      | ...    | 1         |
| Pyæmia, Septicæmia ...               | ...    | ...    | ...     | ...      | 1        | ...      | ...      | 1        | ...      | ...      | ...      | ...         | ...        | 1       | 1        | ...      | ...    | 2         |
| Puerperal Fever ...                  | ...    | ...    | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | ...      | 1        | ...    | 1         |
| II.—PARASITIC DISEASES ...           | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...         | ...        | ...     | ...      | ...      | ...    | ...       |
| III.—DIETIC DISEASES —               | ...    | ...    | ...     | ...      | ...      | 2        | ...      | 1        | ...      | ...      | ...      | ...         | ...        | ...     | 2        | 1        | 1      | 4         |
| IV.—CONSTITUTIONAL DISEASES          | 19     | 7      | 12      | 14       | 23       | 17       | 24       | 6        | 8        | 15       | 6        | ...         | 5          | 11      | 76       | 46       | 13     | 151       |
| V.—DEVELOPMENTAL DISEASES            | ...    | 1      | ...     | ...      | ...      | ...      | ...      | ...      | 1        | 18       | 18       | 8           | 2          | 3       | 46       | 19       | 3      | 73        |
| VI.—LOCAL DISEASES ...               | 56     | 38     | 8       | 20       | 21       | 32       | 38       | 27       | 20       | 3        | 23       | ...         | 10         | 30      | 118      | 149      | 29     | 336       |
| VII.—DEATHS FROM VIOLENCE            | ...    | 3      | 1       | 2        | 1        | 2        | 2        | 2        | 1        | ...      | 1        | ...         | 3          | 2       | 7        | 6        | ...    | 18        |
| VIII.—NOT SPECIFIED OR ILL-DEFINED   | 24     | 1      | ...     | 1        | 1        | ...      | 1        | ...      | 1        | 3        | ...      | ...         | ...        | 4       | 13       | 14       | 1      | 32        |
| TOTALS ...                           | 150    | 95     | 29      | 41       | 49       | 55       | 68       | 37       | 31       | 90       | 49       | 8           | 31         | 57      | 296      | 266      | 52     | 702       |



TABLE VII.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending September 28th, 1896.

| CAUSE OF DEATH.                        |                                 | AGES.  |        |         |          |          |          |          |          |          |          | DISTRICTS. |             |             |         |          | Totals |           |           |
|--|---------------------------------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|------------|-------------|-------------|---------|----------|--------|-----------|-----------|
|  |                                 | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85   | 85 and over | Ports-mouth | Portsea | Kingston |        | Land-port | South-sea |
| Classes I.                             | ZYMOTIC DISEASES                | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | Order 1—Miasmatic Diseases      | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | Measles ...                     | 12     | 57     | ...     | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | 1       | 38       | 30     | 1         | 70        |
|  | Scarlet Fever ...               | ...    | 3      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 2        | 1      | ...       | 3         |
|  | Whooping Cough ...              | 5      | 10     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | 1       | 3        | 11     | ...       | 15        |
|  | Diphtheria ...                  | ...    | 2      | 1       | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | 2       | 2        | ...    | ...       | 4         |
|  | Typhoid Fever ...               | ...    | 2      | 2       | 4        | 3        | 2        | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 7        | 5      | 1         | 13        |
|  | Influenza ...                   | ...    | 1      | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | 1      | 1         | 2         |
|  | Order 2—Diarrhæal Diseases      | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | Diarrhoea, Dysentery ...        | 127    | 10     | ...     | 1        | ...      | ...      | ...      | 1        | ...      | ...      | 2          | ...         | 1           | 5       | 70       | 63     | 2         | 141       |
|  | Order 5—Venereal Diseases       | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | Syphilis ...                    | 3      | ...    | ...     | ...      | ...      | 2        | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 5        | ...    | ...       | 5         |
|  | Gonorrhoea ...                  | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 1        | ...        | ...         | ...         | ...     | ...      | ...    | 1         | 1         |
|  | Order 6—Septic Diseases         | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | Erysipelas ...                  | ...    | 1      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | ...    | ...       | 1         |
|  | Pyæmia, Septicæmia ...          | ...    | ...    | 1       | ...      | ...      | ...      | ...      | 1        | ...      | ...      | ...        | ...         | ...         | ...     | 2        | ...    | ...       | 2         |
|  | Puerperal Fever ...             | ...    | ...    | ...     | ...      | 2        | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | 1        | 1      | ...       | 2         |
|  | PARASITIC DISEASES ...          | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...         | ...     | ...      | ...    | ...       | ...       |
|  | DIETIC DISEASES ...             | ...    | ...    | ...     | ...      | ...      | 2        | ...      | ...      | ...      | 1        | ...        | ...         | ...         | ...     | 3        | ...    | ...       | 3         |
|  | CONSTITUTIONAL DISEASES         | 22     | 14     | 9       | 18       | 16       | 17       | 20       | 6        | 7        | 5        | ...        | ...         | 4           | 12      | 63       | 48     | 7         | 134       |
| Classes II. III. IV. V. VI. VII. VIII. | DEVELOPMENTAL DISEASES          | 26     | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 24       | 12         | 1           | 4           | 39      | 24       | 4      | 4         | 72        |
|  | LOCAL DISEASES ...              | 74     | 30     | 10      | 12       | 12       | 23       | 31       | 23       | 21       | 43       | 28         | 2           | 9           | 33      | 127      | 116    | 24        | 309       |
|  | DEATHS FROM VIOLENCE            | ...    | 3      | 2       | 1        | 4        | 4        | 5        | 2        | 3        | ...      | ...        | 2           | 4           | 1       | 16       | 5      | ...       | 26        |
|  | NOT SPECIFIED OR ILL-DEFINED... | 39     | 1      | ...     | ...      | ...      | 1        | 1        | ...      | ...      | 2        | ...        | ...         | ...         | 6       | 16       | 18     | 4         | 44        |
|  | TOTALS ...                      | 308    | 134    | 25      | 37       | 38       | 52       | 57       | 32       | 32       | 62       | 54         | 16          | 19          | 65      | 390      | 328    | 45        | 847       |

## TABLE VIII.

Deaths Registered at several Ages from different classes of Diseases during the Quarter ending January 3rd, 1896.

| CAUSE OF DEATH.                    | AGES.  |        |         |          |          |          |          |          |          |          | DISTRICTS. |             |            |         |          | Totals |          |          |    |
|------------------------------------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|------------|-------------|------------|---------|----------|--------|----------|----------|----|
|                                    |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
|                                    | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 60 | 60 to 65 | 65 to 75 | 75 to 85   | 85 and over | Portsmouth | Portsea | Kingston |        | Landport | Southsea |    |
| Class I.—ZYMOTIC DISEASES—         |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
| Order 1.—Miasmatic Diseases        |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
| Measles ...                        | 2      | 5      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | 4       | 1        | 1      | 2        | ...      | 7  |
| Scarlet Fever ...                  | ...    | 4      | 5       | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | 1       | 6        | 3      | 3        | ...      | 10 |
| Whooping Cough ...                 | 1      | 5      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | 1          | ...     | 2        | 2      | ...      | 6        |    |
| Diphtheria ...                     | ...    | 6      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | 1       | 3        | 3      | 1        | ...      | 6  |
| Enteric or Typhoid Fever           | ...    | ...    | ...     | 2        | ...      | 2        | ...      | ...      | ...      | ...      | ...        | ...         | ...        | ...     | 3        | 2      | ...      | 4        |    |
| Influenza ...                      | ...    | 1      | ...     | ...      | 1        | 1        | ...      | ...      | ...      | 3        | ...        | ...         | ...        | 1       | 3        | 2      | ...      | 6        |    |
| Order 2.—Diarrhoeal Diseases       |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
| Diarrhoea, Dysentery ...           | 4      | ...    | ...     | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...        | ...         | ...        | 1       | 2        | 2      | ...      | 5        |    |
| Order 5.—Venereal Diseases         |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
| Syphilis ...                       | 1      | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | ...     | 1        | ...    | ...      | 1        |    |
| Gonorrhoea ...                     | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...        | ...         | ...        | ...     | 1        | ...    | ...      | 1        |    |
| Order 6.—Septic Diseases           |        |        |         |          |          |          |          |          |          |          |            |             |            |         |          |        |          |          |    |
| Erysipelas ...                     | 2      | 1      | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | ...     | ...      | 3      | ...      | 3        |    |
| Puerperal Fever                    | ...    | ...    | ...     | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | ...     | ...      | ...    | 1        | 1        |    |
| II.—PARASITIC DISEASES             | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | ...     | ...      | ...    | ...      | ...      |    |
| III.—DIETIC DISEASES               | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...        | ...         | ...        | ...     | ...      | ...    | ...      | ...      |    |
| IV.—CONSTITUTIONAL DISEASES        | ...    | ...    | ...     | ...      | ...      | ...      | 22       | 7        | 8        | 6        | 6          | ...         | ...        | 9       | 65       | 49     | 12       | 140      |    |
| V.—DEVELOPMENTAL DISEASES          | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 32       | 45         | 15          | ...        | 3       | 71       | 38     | 7        | 119      |    |
| VI.—LOCAL DISEASES                 | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 65       | 34         | 7           | ...        | 38      | 172      | 128    | 27       | 382      |    |
| VII.—DEATHS FROM VIOLENCE          | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 5        | 1          | ...         | ...        | 1       | 15       | 9      | 3        | 30       |    |
| VIII.—NOT SPECIFIED OR ILL-DEFINED | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...        | ...         | ...        | 5       | 9        | 18     | 3        | 35       |    |
| TOTALS                             | 159    | 62     | 26      | 32       | 45       | 70       | 79       | 28       | 36       | 111      | 87         | 22          | 25         | 64      | 354      | 261    | 53       | 757      |    |



TABLE IX.

Table showing the Numbers and Death Rates per 1000 of Population from the Seven Principal Zymotic Diseases, from Lung Diseases (excluding Phthisis), from Phthisis, and from all causes, during each Quarter of the Year 1896, and for the whole Year 1896.

|                                 | The Seven Principal Zymotic Diseases. |               | Lung Diseases (excluding Phthisis). |               | Phthisis. |               | From all Causes. |               |
|---------------------------------|---------------------------------------|---------------|-------------------------------------|---------------|-----------|---------------|------------------|---------------|
|                                 | Num-ber.                              | Rate per 1000 | Num-ber.                            | Rate per 1000 | Num-ber.  | Rate per 1000 | Num-ber.         | Rate per 1000 |
| Quarter ending March 28 ... ..  | 52                                    | 1·16          | 140                                 | 3·13          | 63        | 1·41          | 724              | 15·98         |
| Quarter ending June 27 ... ..   | 774                                   | 1·56          | 97                                  | 2·17          | 80        | 1·79          | 702              | 15·72         |
| Quarter ending Sept. 26 ... ..  | 246                                   | 5·50          | 68                                  | 1·52          | 57        | 1·27          | 847              | 18·96         |
| Quarter ending January 3 ... .. | 38                                    | 0·85          | 139                                 | 3·11          | 83        | 1·85          | 757              | 16·95         |
| THE YEAR 1896 ... ..            | 410                                   | 2·27          | 444                                 | 2·48          | 283       | 1·58          | 3030             | 16·96         |

## TABLE X.

Showing the Death Rates per 10,000 persons living, from the Seven Zymotic Diseases for each of the three decennial periods : 1851-1860, 1861-1870, and 1871-1880, and for the three quinquennial periods : 1881-1885, 1886-1890, 1891-1895, and for the Year 1896.

|                        | 1851<br>to<br>1860 | 1861<br>to<br>1870 | 1871<br>to<br>1880 | 1881<br>to<br>1885 | 1886<br>to<br>1890 | 1891<br>to<br>1895 | Year<br>1896 |
|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| Deaths from all Causes | 228                | 211·9              | 198·8              | 194·9              | 186·5              | 177·57             | 169·62       |
| Zymotic Diseases ...   | 49·0               | 43·6               | 37·2               | 29·40              | 25·69              | 23·71              | 22·87        |
| Small Pox ... ..       | 4·6                | 2·4                | 5·0                | 0·00               | 0·07               | 0·04               | —            |
| Measles ... ..         | 4·1                | 4·0                | 4·0                | 5·20               | 3·64               | 6·68               | 7·05         |
| Scarlet Fever ... ..   | 8·8                | 8·3                | 5·5                | 1·46               | 1·20               | 0·95               | 1·06         |
| Diphtheria ... ..      | 0·6                | 1·5                | 1·0                | 6·38               | 2·90               | 1·55               | 1·12         |
| Whooping Cough ...     | 4·8                | 3·6                | 4·1                | 3·18               | 4·26               | 3·12               | 3·35         |
| Fever ... ..           | 13·8               | 8·8                | 7·4                | 6·02               | 4·06               | 2·33               | 1·51         |
| Diarrhoea and ... ..   | 13·1               | 13·1               | 10·1               | 7·14               | 9·58               | 8·91               | 8·78         |
| Cholera ... ..         | —                  | 0·9                | 0·2                | —                  | —                  | —                  | —            |
| Consumption ... ..     | 28·1               | 25·5               | 21·9               | 21·10              | 19·35              | 15·45              | 15·84        |



TABLE XI.

Showing the number of Deaths from all ages from certain groups of diseases, and proportions of deaths of 1000 of Population and to 1000 deaths from all causes.

Infants under one year of age from other groups of diseases, and proportions to 1000 Births, and to 1000 Deaths from all causes under one year.

DIVISION I.

| Diseases.   | Total Deaths. | Deaths per 1000 of Population at all ages. | Proportion of Deaths to 1000 Deaths |
|---|---------------|--|-------------------------------------|
| 1.—Principal Zymotic Diseases ...                 | 410           | 2·29                                       | 135                                 |
| 2.—Pulmonary Diseases (excluding Consumption) ... | 453           | 2·36                                       | 139                                 |
| 3.—Principal Tubercular Diseases                  | 343           | 1·92                                       | 103                                 |

DIVISION II.

| Infants under 1 year       | Total Deaths | Deaths per 1000 Births | Deaths per 1000 of Total Deaths under 1 year |
|----------------------------|--------------|------------------------|--|
| 4.—Wasting Diseases ...    | 235          | 46·9                   | 300  |
| 5.—Convulsive Diseases ... | 155          | 30·9                   | 157  |

NOTES.

- (1) Includes Small Pox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Typhoid or Enteric Fever, Continued Fever, and Diarrhœa.
- (3) Includes Phthisis (or Consumption), Scrofula, Tuberculosis, Rickets, and Tabes Mesenterica.
- (4) Includes Marasmus, Atrophy, Want of Breast Milk, and Premature Birth.
- (5) Includes Hydrocephalus, Infantile Meningitis, Convulsions and Teething.

# TABLE XII.

Showing the number of Deaths in the Years 1861 to 1895 from the Seven principal Zymotic Diseases, and the Number in 1896.

| YEAR           | 1861   | 1862   | 1863   | 1864    | 1865    | 1866    | 1867    | 1868    | 1869    | 1870    | 1871    | 1872    | 1873    | 1874    | 1875    | 1876    | 1877    | 1878    | 1879    | 1880    | 1881    | 1882    | 1883    | 1884    | 1885    | 1886    | 1887    | 1888    | 1889    | 1890    | 1891    | 1892    | 1893    | 1894    | 1895    | Annual<br>Average<br>of 10<br>years<br>1886-95 | 1896    |
|----------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|---------|
| POPULATION     | 95,220 | 96,960 | 98,731 | 100,531 | 102,363 | 104,230 | 106,130 | 108,064 | 110,034 | 112,040 | 114,083 | 116,162 | 118,280 | 120,436 | 122,632 | 124,867 | 127,144 | 129,461 | 131,821 | 134,235 | 128,332 | 129,872 | 134,441 | 137,412 | 140,448 | 143,552 | 146,724 | 149,966 | 153,279 | 156,667 | 160,128 | 163,667 | 167,285 | 170,973 | 174,751 | 158,699  | 178,612 |
| DISEASES       |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |         |
| Small Pox      | 1      | ..     | 12     | 228     | 3       | 1       | ..      | ..      | 1       | 1       | 39      | 514     | 45      | 2       | ..      | 1       | ..      | ..      | ..      | ..      | ..      | ..      | 1       | ..      | ..      | 1       | 3       | ..      | 2       | ..      | ..      | ..      | ..      | 4       | ..      | 1'0  | ..      |
| Measles        | 3      | 42     | 80     | 6       | 14      | 16      | 82      | 46      | 57      | 39      | 42      | 52      | 16      | 56      | 54      | 109     | 12      | 36      | 10      | 42      | 7       | 156     | 10      | 164     | 7       | 197     | 8       | 50      | 8       | 4       | 223     | 38      | 120     | 139     | 39      | 82'6   | 126     |
| Scarlet Fever  | 5      | 226    | 134    | 17      | 20      | 34      | 15      | 107     | 295     | 119     | 30      | 5       | 12      | 36      | 47      | 457     | 36      | 16      | 11      | 9       | 25      | 40      | 16      | 9       | 5       | 18      | 26      | 12      | 11      | 19      | 9       | 18      | 32      | 14      | 7       | 16'6   | 19      |
| Diphtheria     | 9      | 20     | 24     | 17      | 7       | 26      | 4       | 18      | 18      | 13      | 10      | 21      | 15      | 19      | 18      | 11      | 5       | 1       | 4       | 20      | 205     | 106     | 20      | 41      | 42      | 65      | 47      | 17      | 33      | 47      | 23      | 26      | 29      | 34      | 18      | 33'9   | 20      |
| Whooping Cough | 11     | 36     | 16     | 48      | 50      | 46      | 23      | 57      | 26      | 46      | 66      | 17      | 19      | 104     | 8       | 42      | 59      | 92      | 9       | 48      | 66      | 36      | 54      | 9       | 44      | 102     | 41      | 26      | 92      | 39      | 38      | 87      | 36      | 41      | 64      | 56'6   | 60      |
| Fever          | 111    | 128    | 57     | 72      | 74      | 85      | 74      | 119     | 105     | 91      | 72      | 112     | 97      | 101     | 103     | 71      | 87      | 96      | 62      | 70      | 60      | 107     | 93      | 58      | 93      | 124     | 53      | 27      | 32      | 50      | 33      | 42      | 54      | 29      | 37      | 48'2   | 28      |
| Diarrhoea      | 152    | 71     | 68     | 118     | 122     | 119     | 140     | 179     | 100     | 121     | 107     | 113     | 106     | 149     | 141     | 131     | 153     | 170     | 73      | 192     | 73      | 111     | 80      | 116     | 123     | 191     | 151     | 98      | 122     | 105     | 73      | 99      | 247     | 93      | 238     | 141'7  | 157     |
| Totals         | 292    | 523    | 391    | 498     | 317     | 330     | 338     | 526     | 602     | 430     | 366     | 834     | 310     | 470     | 371     | 822     | 322     | 411     | 169     | 381     | 436     | 556     | 274     | 397     | 314     | 698     | 329     | 230     | 300     | 265     | 399     | 310     | 518     | 354     | 403     | 380'6  | 410     |



TABLE XIII.

Table showing the Death Rates per 1,000 Inhabitants from the chief Zymotic Diseases, Consumption and Diseases of the Lungs, in the Sub-Districts, and in the whole Borough. Deaths from Zymotic Diseases occurring in Public Institutions, are entered in the Districts from which the patients who died were removed. Deaths from the other diseases occurring in Public Institutions, are distributed to the various Sub-Districts in accordance with the population for the year 1896 ; and also the means of the ten years 1886-1895 for the whole Borough.

| DISEASES                   |     |     | Ports-<br>mouth | Port-<br>sea | King-<br>ston | Land-<br>port | South-<br>sea | Whole<br>Boro. | Means<br>of 10<br>years |
|----------------------------|-----|-----|-----------------|--------------|---------------|---------------|---------------|----------------|-------------------------|
| Small Pox                  | ... | ... | —               | —            | —             | —             | —             | —              | 0·00                    |
| Measles                    | ... | ... | 1·46            | 0·46         | 0·74          | 0·77          | 0·17          | 0·70           | 0·52                    |
| Scarlet Fever              | ... | ... | 0·14            | 0·06         | 0·10          | 0·14          | —             | 0·10           | 0·11                    |
| Diphtheria                 | ... | ... | 0·14            | 0·20         | 0·17          | 0·05          | —             | 0·11           | 0·22                    |
| Whooping Cough...          | ... | ... | 0·29            | 0·26         | 0·33          | 0·40          | 0·11          | 0·33           | 0·37                    |
| Fever                      | ... | ... | —               | 0·20         | 0·13          | 0·21          | 0·05          | 0·15           | 0·32                    |
| Diarrhoea                  | ... | ... | 0·29            | 0·53         | 1·11          | 0·95          | 0·17          | 0·87           | 0·92                    |
| Principal Zymotic Diseases | ... | ... | 2·32            | 1·71         | 2·58          | 2·52          | 0·50          | 2·26           | 2·46                    |
| Consumption                | ... | ... | 1·02            | 1·60         | 1·56          | 1·70          | 1·32          | 1·58           | 1·74                    |
| Other Tubercular Diseases  | ... | ... | 0·58            | 0·53         | 0·23          | 0·29          | 0·11          | 0·29           | 0·55                    |
| Lung Diseases              | ... | ... | 1·60            | 2·33         | 2·54          | 2·91          | 1·65          | 2·53           | 3·23                    |
| FROM ALL CAUSES            |     |     | 14·47           | 15·21        | 20·33         | 15·68         | 11·82         | 16·96          | 18·21                   |

TABLE XIV.

VACCINATION. Return for the Period, January—June, 1896.

| DISTRICTS   | No. of Births returned in Birth List Sheets so registered from 1st Jan. to 30th June, 1896 | No. of those Births duly entered by 31st Jan., 1897, in columns 10, 11, and 13 of the Vaccination Register ("Birth List Sheets"), viz: |                              |               |                         | No. of these Births which on the 31st Jan., 1897, remained un-entered in the Vaccination Register on account of |   |                                 |   | No. of these Births remaining |
|---|--|--|------------------------------|---------------|-------------------------|---|---|---------------------------------|---|-------------------------------|
|   |  | 10<br>Successfully Vaccinated  | 11                           |               | 13<br>Dead unvaccinated | Postpone-ment by Med. Cert.   | Removed to Districts the Vacc. Officer of which has been apprized | Removed to Places un-known, &c. |   |                               |
|   |  |  | Insuspectable of Vaccination | Had Small Pox |                         |   |   |                                 |   |                               |
| Kingston ...  | 1092   | 948  | 3                            | —             | 101                     | 26  | 9   | 4                               | 1 |                               |
| Portsea ...   | 168  | 146  | 1                            | —             | 17                      | 2   | —   | 2                               | — |                               |
| Portsmouth ...  | 143  | 122  | 1                            | —             | 13                      | —   | 2   | 3                               | 2 |                               |
| Landport ...  | 1031   | 878  | 14                           | —             | 107                     | 17  | 11  | 2                               | 2 |                               |
| Totals ...  | 2434   | 2094   | 19                           | —             | 238                     | 45  | 22  | 11                              | 5 |                               |
| VACCINATION OF CHILDREN whose Births were Registered in this District from Jan. 1st to Dec. 31st, 1895, inclusive |  |  |                              |               |                         |   |   |                                 |   |                               |
| Kingston ...  | 2152   | 1839   | 13                           | —             | 243                     | 13  | 10  | 31                              | 3 |                               |
| Portsea ...   | 338  | 278  | 3                            | —             | 46                      | 2   | 6   | 2                               | 1 |                               |
| Portsmouth ...  | 254  | 221  | 2                            | —             | 22                      | 2   | 3   | 4                               | — |                               |
| Landport ...  | 2152   | 1845   | 11                           | —             | 236                     | 14  | 9   | 32                              | 5 |                               |
| Totals ...  | 4896   | 4183   | 29                           | —             | 547                     | 31  | 28  | 69                              | 9 |                               |



**SMALL POX.**—Five cases of small pox occurred in the early part of the year, these were at once removed to Milton Hospital with another case that showed suspicious symptoms, but fortunately did not develop the disease. These cases all came from Chichester, and owing to the prompt measures taken to prevent the disease spreading, no further case occurred in Portsmouth. On removal to hospital, they all recovered. By referring to Table xiv., it will be seen that very few children escape vaccination, and as long as we have a “vaccinated population,” small pox will, in all probability, never run riot in the town.

**SCARLET FEVER.**—The cases notified numbered 524, of which 19 were fatal, the disease in the majority of cases was of a benignant type, but slightly less so than in the preceding year. The number of cases admitted to the Milton Hospital was 352, of which 11 proved fatal, giving a case mortality of 3·15, the number treated at home was 172, out of which 8 proved fatal, giving a case mortality of 4·65. The majority of the cases, 469, occurred in the Landport and Kingston districts, those in Southsea numbering only 24.

In 142 cases, or 27·10 per cent., sanitary defects were found in the premises upon which scarlet fever was reported to exist.

## TABLE XV.

Table showing the number of cases of **Scarlet Fever** notified, the number of deaths, and the percentage of deaths to cases notified for the years 1884-1896.

| Year.  | Cases notified. | No. of Deaths. | Percentage of deaths to notified cases. |
|--------|-----------------|----------------|---|
| 1884   | 266             | 9              | 3.38                                    |
| 1885   | 314             | 5              | 1.59                                    |
| 1886   | 343             | 18             | 5.24                                    |
| 1887   | 647             | 26             | 4.02                                    |
| 1888   | 465             | 12             | 2.58                                    |
| 1889   | 728             | 11             | 1.51                                    |
| 1890   | 573             | 19             | 3.31                                    |
| 1891   | 326             | 9              | 2.76                                    |
| 1892   | 1023            | 18             | 1.76                                    |
| 1893   | 1176            | 32             | 2.73                                    |
| 1894   | 458             | 14             | 3.06                                    |
| 1895   | 311             | 7              | 2.25                                    |
| 1896   | 524             | 19             | 3.62                                    |
| Totals | 7148            | 199            | 2.78                                    |

Table showing the number of cases of **Scarlet Fever** admitted to the Milton Hospital, the number of deaths, and the percentage of deaths to number of cases of Scarlet Fever admitted for the years 1884-96.

| Year.  | Cases admitted. | No. of Deaths. | Percentage of deaths to cases admitted. |
|--------|-----------------|----------------|---|
| 1884   | 13              | ...            | ...                                     |
| 1885   | 16              | ...            | ...                                     |
| 1886   | 29              | ...            | ...                                     |
| 1887   | 56              | 1              | 1.78                                    |
| 1888   | 120             | 1              | 0.88                                    |
| 1889   | 278             | 1              | 0.36                                    |
| 1890   | 384             | 11             | 2.86                                    |
| 1891   | 180             | 3              | 1.66                                    |
| 1892   | 532             | 6              | 1.10                                    |
| 1893   | 503             | 6              | 1.19                                    |
| 1894   | 238             | 8              | 3.36                                    |
| 1895   | 177             | 2              | 1.13                                    |
| 1896   | 352             | 11             | 3.15                                    |
| Totals | 2878            | 50             | 1.74                                    |



**DIPHTHERIA.**—One hundred and twenty-four cases of Diphtheria were notified during the year, this represents an attack rate of 0·69 per 1000 of the population, and is the lowest point the prevalence of Diphtheria has yet reached in Portsmouth since 1884, when the notification of infectious diseases came into force. Twenty of the cases proved fatal : this gives a death-rate from diphtheria of 0·11 per 1000 ; the death-rate per 1000 of the 33 large towns during the same time was 0·38.

Forty-one, or thirty-three per cent of the cases notified, were admitted to Milton Hospital.

Sanitary defects were found on fifty-six, or 45·16 per cent of the premises in which diphtheria was reported to exist.

### **TABLE XVI.**

Table showing the number of cases of **Diphtheria** notified, the number of Deaths and the percentage of Deaths to cases notified for the Years 1884 to 1896.

| Year | Cases notified | No. of Deaths | Percentage of Deaths to cases notified |
|------|----------------|---------------|--|
| 1884 | 174            | 41            | 23·44                                  |
| 1885 | 173            | 42            | 24·25                                  |
| 1886 | 232            | 65            | 26·72                                  |
| 1887 | 260            | 47            | 19·08                                  |
| 1888 | 128            | 17            | 13·28                                  |
| 1889 | 126            | 33            | 26·19                                  |
| 1890 | 212            | 47            | 22·69                                  |
| 1891 | 140            | 23            | 16·42                                  |
| 1892 | 121            | 26            | 21·48                                  |
| 1893 | 140            | 29            | 21·48                                  |
| 1894 | 139            | 34            | 24·46                                  |
| 1895 | 124            | 18            | 14·51                                  |
| 1896 | 124            | 20            | 16·12                                  |
|      | 2093           | 442           | 21·11                                  |

Table showing the number of cases of **Diphtheria** admitted to the Milton Hospital the number of Deaths, and the percentage of Deaths to cases of Diphtheria admitted for the years 1884 to 1896.

| Year | Cases admitted | No. of Deaths | Percentage of Deaths of cases admitted |
|------|----------------|---------------|--|
| 1884 | 4              | 1             | 25·00                                  |
| 1885 | 6              | —             | —                                      |
| 1886 | 11             | 1             | 9·09                                   |
| 1887 | 27             | 8             | 23·70                                  |
| 1888 | 23             | —             | —                                      |
| 1889 | 18             | —             | —                                      |
| 1890 | 64             | 18            | 28·12                                  |
| 1891 | 51             | 4             | 7·84                                   |
| 1892 | 27             | 6             | 22·22                                  |
| 1893 | 12             | 4             | 33·33                                  |
| 1894 | 38             | 8             | 21·05                                  |
| 1895 | 46             | 5             | 10·87                                  |
| 1896 | 41             | 4             | 9·8                                    |
|      | 368            | 59            | 16·03                                  |

**ENTERIC OR TYPHOID FEVER.**—The number of cases of typhoid fever reported was 235, representing an attack rate of 1·3 per 1000 population, this is lower than has been recorded in any previous year with the single exception of 1894, when the attack rate was 1·1.

Of the 235 cases, 27 or 11·5 per cent. proved fatal; 83 cases were admitted to Milton Hospital, of these 6 or 7·23 per cent. were fatal.

Of the 235 cases, as will be seen from table xix., 195 or 83 per cent. occurred in Landport and Kingston, 12 in Southsea and 4 in Portsmouth, the attack rate per 1000 population in the various districts were as follows :—

|             |          |           |           |           |
|-------------|----------|-----------|-----------|-----------|
| Portsmouth, | Portsea, | Kingston, | Landport, | Southsea. |
| 0·5         | 1·6      | 1·3       | 1·3       | 0·6       |

On the premises from which typhoid fever was notified, sanitary defects were found in 87 or 37·02 per cent.



**TABLE XVII.**

Table showing the number of cases of **Typhoid Fever** notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1896.

| Year | Cases notified | No. of Deaths. | Percentage of Deaths to cases notified. |
|------|----------------|----------------|---|
| 1884 | 539            | 58             | 10·76                                   |
| 1885 | 762            | 93             | 11·48                                   |
| 1886 | 1249           | 124            | 9·90                                    |
| 1887 | 554            | 53             | 9·52                                    |
| 1888 | 313            | 27             | 8·60                                    |
| 1889 | 317            | 32             | 10·01                                   |
| 1890 | 457            | 50             | 10·94                                   |
| 1891 | 265            | 33             | 12·40                                   |
| 1892 | 330            | 38             | 11·51                                   |
| 1893 | 361            | 54             | 14·96                                   |
| 1894 | 201            | 25             | 12·44                                   |
| 1895 | 258            | 33             | 12·74                                   |
| 1896 | 235            | 27             | 11·49                                   |
|      | 5841           | 637            | 10·90                                   |

Table showing the number of cases of **Typhoid Fever** admitted to the Milton Hospital, the number of Deaths, and the percentage of Deaths to cases of **Typhoid Fever** admitted for the years 1884 to 1896.

| Year | Cases admitted. | No. of Deaths. | Percentage of Deaths to cases admitted. |
|------|-----------------|----------------|---|
| 1884 | 2               | —              | —                                       |
| 1885 | 6               | —              | —                                       |
| 1886 | 66              | 4              | 6·06                                    |
| 1887 | 37              | 1              | 2·70                                    |
| 1888 | 35              | —              | —                                       |
| 1889 | 48              | 6              | 12·50                                   |
| 1890 | 114             | 5              | 4·38                                    |
| 1891 | 51              | 4              | 7·84                                    |
| 1892 | 81              | 6              | 7·41                                    |
| 1893 | 94              | 3              | 3·19                                    |
| 1894 | 53              | 3              | 5·85                                    |
| 1895 | 83              | 4              | 4·82                                    |
| 1896 | 83              | 6              | 7·23                                    |
|      | 753             | 42             | 5·57                                    |

**MEASLES.**—An epidemic of this disease broke out in the early part of the year. The first case came to the knowledge of the Health Department at the beginning of March, at Eastney, but it soon spread over the whole of the Landport district, afterwards making its appearance in each of the other districts.

The number of cases coming to the knowledge of your Medical Officer of Health was 1036, of which number 126 proved fatal. The number of cases occurring in each district was as follows :—

| Portsmouth, | Portsea, | Kingston, | Landport, | Southsea. |
|-------------|----------|-----------|-----------|-----------|
|-------------|----------|-----------|-----------|-----------|

|    |    |     |     |    |
|----|----|-----|-----|----|
| 63 | 47 | 250 | 619 | 57 |
|----|----|-----|-----|----|

The cause for the high mortality from this disease is, I believe, in a large manner due to the very complacent view that is taken amongst parents regarding measles. It is looked upon as a slight ailment which children must necessarily go through, and taken for granted, as a matter of course, that the child will get over it without any trouble. As a matter of fact, unless great care of the patient is exercised, it proves one of the most fatal diseases a child can contract, and many parents must have had a rude awakening in finding their child suddenly at death's door from a complaint they considered of such a slight character as not even to need a doctor. As soon as parents recognise that an attack of measles if neglected will probably prove fatal, then so soon will an enormous saving of child-life be effected. It will then be seen that the carelessness with which disease has been treated, and not the disease itself, has been the great cause of fatal cases of measles.

Sanitary defects were found in 204 instances, or 19·7 per cent. of the houses in which the disease was known to exist.



**WHOOPIING COUGH.**—This disease caused 60 deaths during the year, being four less than in the previous year.

This disease, like measles, is one that is far more fatal than is generally recognised by the public, and I have no doubt that a number of young lives would be saved if parents could be awakened to the fact that whooping cough is *not* a slight ailment, and if neglected, is likely to prove fatal, or render a child delicate for life.

Sanitary defects were found in 13 instances, or 21·6 per cent of the houses in which the disease was known to exist.

**DIARRHŒA.**—One hundred and fifty seven deaths from Diarrhœa took place during the year, being eighty-one less than in the previous year.

By far the largest number of these deaths, no fewer than 132, took place amongst children under one year of age, and it is especially noteworthy that 122 or 92 per cent of the fatal cases were in “bottle-fed” children. In considering this mortality, I think there is no doubt that the deaths would be reduced enormously if the milk were always scalded before use, and the bottle and “teat” of the bottle thoroughly cleaned each time before being given to the child.

It has always been noticed that a very hot summer is most productive of summer diarrhœa, and on table xviii is shown the relation between the deaths and the temperature; also it is noticed that the rise in fatal cases of diarrhœa follows very closely on the rise of the 4ft. thermometer, and as soon as a temperature of 56 degrees F. is registered 4ft. below the earth then summer diarrhœa becomes prevalent. The maximum reached during the year was 60 degrees F. in June; in the previous year the maximum was 61·9 degrees F., the

deaths during this year, as stated above, being 51 more than in 1896.

Sanitary defects were found in 26 or 16·5 per cent of the houses where fatal cases of diarrhœa occurred.

### TABLE XVIII.

Showing the relation of Temperature and fatal cases of Diarrhœa.

| Week ending | Temperature of Air. |                 | Temperature by Earth Themometer |        | Total Rainfall in inches. | Deaths from Diarrhœa |
|-------------|---------------------|-----------------|---------------------------------|--------|---------------------------|----------------------|
|             | Mean of Maximum     | Mean of Minimum | 1 foot                          | 4 feet |                           |                      |
| 1896        |                     |                 |                                 |        |                           |                      |
| March 7th   | 49·90               | 42·2            | 43·6                            | 45·3   | 0·88                      | 1                    |
| " 14th      | 51·07               | 42·9            | 46·8                            | 45·8   | 0·03                      | 1                    |
| " 21st      | 52·10               | 41·0            | 46·3                            | 46·8   | 1·61                      | 1                    |
| " 28th      | 55·43               | 43·6            | 49·4                            | 47·5   | 0·50                      | 1                    |
| April 4th   | 50·43               | 37·0            | 45·5                            | 47·9   | ...                       | 4                    |
| " 11th      | 58·50               | 46·3            | 50·1                            | 47·8   | 0·12                      | 2                    |
| " 18th      | 54·07               | 42·3            | 48·9                            | 48·9   | 0·43                      | 4                    |
| " 25th      | 58·80               | 40·9            | 51·7                            | 49·5   | ...                       | 17                   |
| May 2nd     | 57·14               | 44·1            | 53·5                            | 50·5   | 0·09                      | 26                   |
| " 9th       | 62·57               | 41·8            | 52·9                            | 51·0   | ...                       | 21                   |
| " 16th      | 68·43               | 45·9            | 58·3                            | 52·1   | ...                       | 3                    |
| " 23rd      | 64·10               | 49·6            | 58·0                            | 53·6   | 0·45                      | 3                    |
| " 30th      | 65·07               | 47·5            | 58·6                            | 54·1   | ...                       | 25                   |
| June 6th    | 67·80               | 51·0            | 63·9                            | 55·4   | 0·52                      | 11                   |
| " 13th      | 69·10               | 55·6            | 63·8                            | 57·1   | 0·57                      | 19                   |
| " 20th      | 78·60               | 57·4            | 68·2                            | 58·3   | 0·18                      | 3                    |
| " 27th      | 70·07               | 52·4            | 66·2                            | 59·9   | 0·08                      | 3                    |
| July 4th    | 69·93               | 56·4            | 64·5                            | 60·0   | 0·24                      | ...                  |

**INFLUENZA.**—The number of deaths from this disease was lower than for some years previous. Only 19 deaths are registered, as against 93 in 1895, 37 in 1894, 53 in 1893, 165 in 1892, and 48 in 1891.



**PUERPERAL FEVER.**—Twenty cases of this disease were reported during the year, of which 5 proved fatal. In each case special care was taken to have the nurse or mid-wife in charge of the case thoroughly disinfected.

In 7 instances, or 35 per cent., sanitary defects were found on the premises in which the disease occurred.

## **COMPULSORY NOTIFICATION OF INFECTIOUS DISEASE.**

Under the Portsmouth Corporation Act, 958 cases of infectious disease have been reported to the Medical Officer of Health, and as a consequence—mainly of compulsory notification—1,354 rooms have been disinfected, and disinfectants supplied where necessary ; 216 letters have been sent to the Clerk of the School Board and Principals of various Schools in the Borough notifying them of the occurrence of infectious disease, and advising that the children from infected premises be prevented from attending school until they were free from infection ; the Superintendents of Sunday Schools have been similarly advised in 300 instances ; 429 letters have been sent to the Public Librarian respecting infected houses.

**TABLE XIX.**

Cases of Infectious Diseases coming to the knowledge of the Portsmouth Urban Sanitary Authority during the year 1896.

|                        |     | 0—1 | 1—5 | 5—15 | 15—25 | 25—35 | 35—45 | 45—55 | 55—65 | 65—75 | 75—85 | 85 and over | Totals |
|------------------------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------------|--------|
| <b>SMALL POX</b>       |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | ... | 2    | 1     | ...   | 1     | ...   | ...   | ...   | ...   | ...         | 4      |
| Portsea                | ... | ... | ... | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | ...    |
| Kingston               | ... | ... | ... | ...  | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 1      |
| Landport               | ... | ... | ... | ...  | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 1      |
| Southsea               | ... | ... | ... | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | ...    |
| Total                  | ... | ... | ... | 2    | 3     | ...   | 1     | ...   | ...   | ...   | ...   | ...         | 6      |
| <b>SCARLET FEVER</b>   |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | 4   | 7    | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 11     |
| Portsea                | ... | ... | 2   | 9    | 7     | 2     | ...   | ...   | ...   | ...   | ...   | ...         | 20     |
| Kingston               | ... | 3   | 54  | 109  | 13    | 5     | ...   | 1     | ...   | ...   | ...   | ...         | 185    |
| Landport               | ... | ... | 77  | 177  | 20    | 9     | 1     | ...   | ...   | ...   | ...   | ...         | 284    |
| Southsea               | ... | ... | 10  | 8    | 4     | 2     | ...   | ...   | ...   | ...   | ...   | ...         | 24     |
| Total                  | ... | 3   | 147 | 310  | 44    | 18    | 1     | 1     | ...   | ...   | ...   | ...         | 524    |
| <b>DIPHTHERIA</b>      |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | 1   | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 1      |
| Portsea                | ... | ... | 4   | 4    | 2     | 1     | ...   | 1     | 2     | ...   | ...   | ...         | 14     |
| Kingston               | ... | ... | 15  | 27   | 13    | 2     | 3     | 2     | ...   | ...   | ...   | ...         | 62     |
| Landport               | ... | 1   | 10  | 16   | 5     | 3     | 2     | ...   | ...   | ...   | ...   | ...         | 37     |
| Southsea               | ... | ... | ... | 4    | 2     | 1     | 2     | 1     | ...   | ...   | ...   | ...         | 10     |
| Total                  | ... | 1   | 30  | 51   | 22    | 7     | 7     | 4     | 2     | ...   | ...   | ...         | 124    |
| <b>ENTERIC FEVER</b>   |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | ... | 2    | 1     | ...   | 1     | ...   | ...   | ...   | ...   | ...         | 4      |
| Portsea                | ... | ... | 3   | 7    | 7     | 2     | 4     | ...   | 1     | ...   | ...   | ...         | 24     |
| Kingston               | ... | 1   | 13  | 39   | 21    | 10    | 8     | 4     | 1     | ...   | ...   | ...         | 97     |
| Landport               | ... | ... | 13  | 44   | 21    | 13    | 5     | 2     | ...   | ...   | ...   | ...         | 98     |
| Southsea               | ... | ... | ... | 2    | 34    | 3     | 1     | 2     | ...   | 1     | ...   | ...         | 12     |
| Total                  | ... | 1   | 29  | 94   | 53    | 28    | 19    | 8     | 2     | 1     | ...   | ...         | 235    |
| <b>CONTINUED FEVER</b> |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | ... | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | ...    |
| Portsea                | ... | ... | ... | 4    | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 4      |
| Kingston               | ... | ... | 6   | 13   | 5     | 2     | 1     | 1     | ...   | ...   | ...   | ...         | 28     |
| Landport               | ... | ... | 2   | 11   | 2     | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 15     |
| Southsea               | ... | ... | ... | 3    | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...         | 4      |
| Total                  | ... | ... | 8   | 31   | 8     | 2     | 1     | 1     | ...   | ...   | ...   | ...         | 51     |
| <b>PUERPERAL FEVER</b> |     |     |     |      |       |       |       |       |       |       |       |             |        |
| Portsmouth             | ... | ... | ... | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...         | ...    |
| Portsea                | ... | ... | ... | ...  | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...         | 1      |
| Kingston               | ... | ... | ... | ...  | 2     | 8     | 2     | ...   | ...   | ...   | ...   | ...         | 12     |
| Landport               | ... | ... | ... | ...  | ...   | 2     | 1     | ...   | ...   | ...   | ...   | ...         | 3      |
| Southsea               | ... | ... | ... | ...  | ...   | 1     | 1     | ...   | ...   | ...   | ...   | ...         | 2      |
| Total                  | ... | ... | ... | ...  | 2     | 12    | 4     | ...   | ...   | ...   | ...   | ...         | 18     |



**TABLE XX.**

WEEKLY RETURN of Cases of Infectious Diseases reported in accordance with the Portsmouth Corporation Act, 1883, during the year 1896.

| Week ending |      | Small Pox. | Scarlet Fever. | Diphtheria. | Fevers.  |            | Puerperal Fever. | Total. |
|-------------|------|------------|----------------|-------------|----------|------------|------------------|--------|
|             |      |            |                |             | Enteric. | Continued. |                  |        |
| 1896        |      |            |                |             |          |            |                  |        |
| January     | 4th  | ...        | 7              | 1           | 7        | ...        | 1                | 16     |
| "           | 11th | ...        | 3              | 3           | 2        | ...        | ...              | 8      |
| "           | 18th | ...        | 9              | 4           | ...      | 2          | ...              | 15     |
| "           | 25th | ...        | 3              | 4           | 1        | 1          | ...              | 9      |
| February    | 1st  | ...        | 12             | 5           | 3        | 1          | ...              | 21     |
| "           | 8th  | ...        | 12             | 6           | 1        | 3          | ...              | 22     |
| "           | 15th | ...        | 7              | 3           | 1        | 1          | ...              | 12     |
| "           | 22nd | ...        | 5              | 2           | 1        | ...        | 1                | 9      |
| "           | 29th | ...        | 8              | 5           | 5        | ...        | ...              | 18     |
| March       | 7th  | ...        | 2              | 2           | 3        | 1          | ...              | 8      |
| "           | 14th | ...        | 8              | 2           | 1        | 2          | ...              | 13     |
| "           | 21st | 1          | 3              | ...         | 1        | ...        | ...              | 5      |
| "           | 28th | 1          | 4              | 4           | 7        | 1          | ...              | 17     |
| April       | 4th  | ...        | 6              | 2           | 2        | 1          | 1                | 12     |
| "           | 11th | ...        | 5              | ...         | 6        | ...        | ...              | 11     |
| "           | 18th | ...        | 13             | ...         | 7        | 1          | ...              | 21     |
| "           | 25th | 1          | 5              | 2           | 4        | 3          | 1                | 16     |
| May         | 2nd  | 1          | 9              | 1           | 4        | 1          | ...              | 16     |
| "           | 9th  | 1          | 9              | 1           | 5        | ...        | ...              | 16     |
| "           | 16th | 1          | 6              | 2           | 8        | 2          | 1                | 20     |
| "           | 23rd | ...        | 5              | 2           | 6        | ...        | ...              | 13     |
| "           | 30th | ...        | 7              | 2           | 3        | ...        | ...              | 12     |
| June        | 6th  | ...        | 6              | 1           | 5        | 1          | ...              | 13     |
| "           | 13th | ...        | 14             | 1           | 5        | ...        | 1                | 21     |
| "           | 20th | ...        | 14             | 3           | 2        | 2          | ...              | 21     |
| "           | 27th | ...        | 10             | 1           | 2        | ...        | ...              | 13     |
| July        | 4th  | ...        | 5              | 2           | 4        | 1          | ...              | 12     |
| "           | 11th | ...        | 8              | 1           | 5        | ...        | 2                | 16     |
| "           | 18th | ...        | 5              | 1           | 7        | ...        | ...              | 15     |
| "           | 25th | ...        | 7              | 2           | 4        | ...        | 1                | 14     |
| August      | 1st  | ...        | 6              | ...         | 9        | 1          | ...              | 16     |
| "           | 8th  | ...        | 12             | ...         | 2        | 2          | 1                | 17     |
| "           | 15th | ...        | 3              | 2           | 10       | 1          | ...              | 16     |
| "           | 22nd | ...        | 8              | 2           | 11       | 2          | 1                | 24     |
| "           | 29th | ...        | 16             | 2           | 11       | 1          | ...              | 30     |
| September   | 5th  | ...        | 17             | 1           | 7        | 1          | ...              | 26     |
| "           | 12th | ...        | 11             | 1           | 8        | 3          | ...              | 23     |
| "           | 19th | ...        | 21             | ...         | 8        | 4          | 1                | 34     |
| "           | 26th | ...        | 14             | 5           | 9        | 2          | ...              | 30     |
| October     | 3rd  | ...        | 15             | 4           | 6        | 2          | ...              | 27     |
| "           | 10th | ...        | 24             | 3           | 5        | ...        | ...              | 32     |
| "           | 17th | ...        | 14             | 3           | 7        | 2          | ...              | 26     |
| "           | 24th | ...        | 11             | 4           | 6        | ...        | ...              | 22     |
| "           | 31st | ...        | 24             | ...         | 2        | ...        | ...              | 26     |
| November    | 7th  | ...        | 21             | 2           | 5        | ...        | ...              | 28     |
| "           | 14th | ...        | 14             | 3           | 1        | 2          | ...              | 20     |
| "           | 21st | ...        | 14             | 6           | 4        | ...        | 1                | 25     |
| "           | 28th | ...        | 19             | 5           | 2        | ...        | 1                | 27     |
| December    | 5th  | ...        | 14             | 1           | ...      | 1          | 1                | 17     |
| "           | 12th | ...        | 11             | 6           | ...      | ...        | ...              | 17     |
| "           | 19th | ...        | 13             | 3           | 3        | ...        | ...              | 19     |
| "           | 26th | ...        | 13             | 3           | ...      | ...        | 3                | 19     |
| January     | 2nd  | ...        | 18             | 3           | 2        | ...        | ...              | 23     |
| TOTALS ...  |      | 6          | 550            | 124         | 230      | 50         | 19               | 979    |

**TABLE XXI.**

Shewing the number of Infectious Diseases reported to the Medical Officer of Health under the Portsmouth Corporation Act.

| Year   | Small Pox | Scarlet Fever | Diphtheria | Fevers  |            | Puerperal Fever | Totals |
|--------|-----------|---------------|------------|---------|------------|-----------------|--------|
|        |           |               |            | Enteric | Continued. |                 |        |
| 1885   | 8         | 314           | 173        | 762     | ...        | 2               | 1259   |
| 1886   | 7         | 343           | 232        | 1249    | ...        | 14              | 1845   |
| 1887   | 23        | 647           | 260        | 554     | ...        | 11              | 1495   |
| 1888   | 3         | 465           | 128        | 313     | ...        | 11              | 920    |
| 1889   | 6         | 728           | 126        | 317     | ...        | 6               | 1183   |
| 1890   | ...       | 573           | 212        | 457     | 125        | 4               | 1371   |
| 1891   | ...       | 350           | 138        | 265     | 52         | 15              | 820    |
| 1892   | ...       | 1023          | 121        | 330     | 76         | 2               | 1552   |
| 1893   | 6         | 1153          | 135        | 366     | 69         | 25              | 1754   |
| 1894   | 22        | 458           | 139        | 201     | 49         | 9               | 878    |
| 1895   | ...       | 311           | 124        | 258     | 62         | 15              | 770    |
| Totals | 75        | 6365          | 1788       | 5072    | 433        | 114             | 13847  |
| Means  | 6·8       | 587·7         | 162·5      | 461·1   | 36·6       | 10·4            | 1258·8 |
| 1896   | 6         | 524           | 124        | 235     | 51         | 18              | 958    |



TABLE XXII.

Showing the Death Rates of the 7 Principal Zymotic Diseases during the 24 years, 1873--1896, distinguishing between those which are compulsory Notified and those which are not.

| DISEASE                       | BEFORE NOTIFICATION ACT |      |      |      |      |      |      |      |      |      |      | AFTER NOTIFICATION ACT |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                               | 1873                    | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884                   | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 |
| Small Pox                     | 0.38                    | 0.01 | ..   | ..   | ..   | ..   | ..   | ..   | ..   | ..   | ..   | ..                     | ..   | ..   | 0.02 | ..   | ..   | ..   | ..   | ..   | ..   | 0.02 | ..   | ..   |
| Scarlet Fever                 | 0.10                    | 0.30 | 0.38 | 3.78 | 0.29 | 0.13 | 0.08 | 0.06 | 0.19 | 0.30 | 0.11 | 0.06                   | 0.03 | 0.12 | 0.17 | 0.08 | 0.07 | 0.12 | 0.06 | 0.11 | 0.10 | 0.08 | 0.04 | 0.10 |
| Diphtheria                    | 0.13                    | 0.16 | 0.14 | 0.09 | 0.04 | 0.01 | 0.03 | 0.14 | 1.59 | 0.80 | 0.14 | 0.29                   | 0.29 | 0.45 | 0.32 | 0.11 | 0.21 | 0.29 | 0.14 | 0.16 | 0.17 | 0.20 | 0.10 | 0.11 |
| Fever                         | 0.83                    | 0.85 | 0.84 | 0.58 | 0.71 | 0.77 | 0.51 | 0.49 | 0.46 | 0.81 | 0.69 | 0.42                   | 0.64 | 0.86 | 0.34 | 0.11 | 0.20 | 0.31 | 0.21 | 0.27 | 0.32 | 0.17 | 0.21 | 0.15 |
| Total Notifiable Diseases     | 1.44                    | 1.32 | 1.36 | 4.45 | 1.07 | 0.91 | 0.62 | 0.69 | 2.24 | 1.91 | 0.94 | 0.77                   | 0.96 | 1.43 | 0.85 | 0.30 | 0.48 | 0.72 | 0.41 | 0.54 | 0.68 | 0.47 | 0.35 | 0.36 |
| Measles                       | 0.14                    | 0.47 | 0.44 | 0.90 | 0.09 | 0.29 | 0.07 | 0.29 | 0.05 | 1.18 | 0.07 | 1.12                   | 0.04 | 1.37 | 0.05 | 0.33 | 0.05 | 0.03 | 1.39 | 0.23 | 0.72 | 0.81 | 0.22 | 0.70 |
| Whooping Cough                | 0.16                    | 0.88 | 0.07 | 0.34 | 0.48 | 0.74 | 0.07 | 0.34 | 0.51 | 0.27 | 0.40 | 0.06                   | 0.31 | 0.71 | 0.28 | 0.17 | 0.60 | 0.24 | 0.24 | 0.53 | 0.21 | 0.24 | 0.36 | 0.33 |
| Diarrhoea                     | 0.91                    | 1.26 | 1.15 | 1.07 | 1.25 | 1.37 | 0.59 | 1.36 | 0.56 | 0.81 | 0.59 | 0.85                   | 0.87 | 1.13 | 1.03 | 0.65 | 0.80 | 0.67 | 0.46 | 0.60 | 1.47 | 0.54 | 1.36 | 0.87 |
| Total Non-Notifiable Diseases | 1.21                    | 2.61 | 1.66 | 2.31 | 1.83 | 2.40 | 0.73 | 1.99 | 1.12 | 2.26 | 1.06 | 2.10                   | 1.22 | 3.41 | 1.36 | 1.15 | 1.45 | 0.93 | 2.09 | 1.36 | 2.40 | 1.59 | 1.94 | 1.90 |
| Total Zymotic Death Rate      | 2.65                    | 3.93 | 3.02 | 6.76 | 2.90 | 3.31 | 1.35 | 2.68 | 3.46 | 4.17 | 2.00 | 2.87                   | 2.18 | 4.84 | 2.21 | 1.45 | 1.93 | 1.65 | 2.50 | 1.90 | 3.08 | 2.06 | 3.30 | 2.26 |

|   |    |                |
|---|----|----------------|
| Mean Death Rate from Notifiable Diseases for 11 years before the adoption of Notification | .. | 1.54 per 1,000 |
| " " " " " after 13 " "  | .. | 0.67           |
| " " " " " before 11 " "   | .. | 1.83           |
| " " " " " after 13 " "  | .. | 1.76           |
| " " " " " before 11 years before the 7 principal Zymotic Diseases for 11 years before     | .. | 3.30           |
| " " " " " after 13 " "  | .. | 2.40           |

**THE MILTON HOSPITAL FOR INFECTIOUS DISEASES.**—During the year, 499 cases were admitted to the above Hospital. This represents a little over 52 per cent of all the cases notified to the Sanitary Authority. The greater part of these were suffering from Scarlet Fever, and 67 per cent of the total number of cases of Scarlet Fever notified in the Borough were removed to hospital.

I should like to see a far larger percentage of persons with this disease removed, not only because of the very infectious nature of the disease, but also on account of the long duration of the infectivity. I do not think the community gain so much by the removal to hospital of Typhoid cases as does the patient himself; for the simple reason that, with the exercise of due care, the disease is little likely to spread from person to person; but in the case of Scarlet Fever it is different, and every case moved is a distinct gain to the community. It is, of course, an advantage to the patient, for in the majority of cases, he receives better attention at the hospital than he would at home; but the advantage to the Scarlet Fever patient, in contradistinction to a Typhoid Fever patient, is outshadowed by the advantage to the community.

Whilst I am anxious that all cases should be removed, I must point out that, at present, our Hospital is not able to accommodate all the cases that occur, should they all wish to be removed; and considering the rapid growth of the Borough, I am of opinion that wards capable of accommodating at the very least another 40 patients should be erected. The recommendation of the Local Government Board is, that there should be one bed for every 1,000 of the population. At the present time, we cannot accommodate more than 120 people, whereas, by the standard of one bed to 1,000 population, we ought to have over 180 beds. It would also be of great service, if we could have two or three small rooms to be used as "observation wards." Medical men are constantly

seeing cases which do not exhibit definite enough symptoms to indicate whether they are cases of infectious disease or not. If these cases could be removed to an observation ward, and kept by themselves till definite symptoms have become manifest, there is no doubt we should, in a number of instances, be able to prevent the spread of infectious disease.

I should like, before leaving this subject, to express my appreciation of kindness and attention of the Matron and Nurses to the patients, to which must always, in a large measure, depend the success of the institution.

**DISINFECTION.**—I am pleased to report that during the past year, a modern apparatus for disinfection has been erected in place of the old and faulty hot air oven. The machine erected is one supplied by the Thresh Current Steam Disinfecting Company, and by its means, all infected clothing or bedding is subjected to a current of saturated steam at a temperature of about 213° to 214° F. This is, in my opinion, the best and cheapest method of disinfection on the market.

During the year, 2,384 articles have been disinfected at the Milton Hospital.



**TABLE XXIII.**

Cases under treatment at the Milton Hospital during the year 1896.

| DISEASES             | AGES |     |      |       |       |       |       |       |             | Total |
|----------------------|------|-----|------|-------|-------|-------|-------|-------|-------------|-------|
|                      | 0-1  | 1-5 | 5-15 | 15-25 | 25-35 | 35-45 | 45-55 | 55-65 | 65 and over |       |
| Small Pox ...        | ...  | ... | 2    | 2     | 1     | 1     | ...   | ...   | ...         | 6     |
| Scarlet Fever ...    | ...  | 103 | 245  | 37    | 8     | ...   | 1     | 1     | ...         | 394   |
| Typhoid Fever        | ...  | 6   | 42   | 20    | 13    | ...   | 1     | ...   | ...         | 83    |
| Diphtheria ...       | ...  | 9   | 14   | 9     | 4     | 2     | 3     | ...   | ...         | 41    |
| Measles ...          | 1    | 2   | 3    | 4     | ...   | ...   | ...   | ...   | ...         | 10    |
| Puerperal Fever      | ...  | ... | ...  | 2     | 2     | 1     | ...   | ...   | ...         | 5     |
| Continued Fever      | ...  | ... | 6    | 1     | ...   | ...   | ...   | ...   | ...         | 7     |
| Tonsilitis ...       | ...  | ... | ...  | 1     | ...   | ...   | ...   | ...   | ...         | 1     |
| Erysipelas ...       | ...  | ... | ...  | ...   | ...   | ...   | ...   | 1     | ...         | 1     |
| Bronchitis ...       | ...  | ... | ...  | ...   | 1     | ...   | ...   | ...   | ...         | 1     |
| Influenza ...        | ...  | ... | ...  | 2     | ...   | ...   | ...   | ...   | ...         | 2     |
| Phthisis ...         | ...  | ... | ...  | ...   | 1     | ...   | ...   | ...   | ...         | 1     |
| Meningitis ...       | ...  | ... | 1    | ...   | ...   | ...   | ...   | ...   | ...         | 1     |
| Abdominal Tumour ... | ...  | ... | ...  | ...   | ...   | ...   | ...   | 1     | ...         | 1     |
| Other Diseases...    | ...  | ... | ...  | 1     | ...   | ...   | ...   | ...   | ...         | 1     |
| TOTALS ...           | 1    | 120 | 313  | 79    | 30    | 4     | 5     | 3     | ...         | 555   |

TABLE XXIV.

Number of Patients admitted to the Hospital for the Years  
1883 to 1896.

| DISEASES              | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Small Pox ...         | 5    | 1    | 8    | 7    | 20   | 4    | 6    | 1    | ...  | ...  | 6    | 22   | ...  | 6    |
| Scarlet Fever ...     | 1    | 13   | 16   | 29   | 56   | 120  | 278  | 384  | 180  | 532  | 503  | 238  | 177  | 352  |
| Enteric orTyphoid ... | ...  | 2    | 6    | 66   | 37   | 35   | 48   | 114  | 51   | 81   | 94   | 53   | 83   | 76   |
| Diphtheria ...        | ...  | 4    | 6    | 11   | 27   | 23   | 18   | 69   | 52   | 27   | 12   | 38   | 46   | 38   |
| Measles ...           | 1    | 2    | 1    | 11   | 4    | 8    | 5    | 1    | 22   | ...  | 6    | 22   | 15   | 10   |
| Other Diseases ...    | ...  | ...  | ...  | 1    | 3    | 8    | 8    | 7    | 18   | 5    | 5    | 9    | 25   | 17   |
| Total ...             | 7    | 22   | 37   | 125  | 147  | 194  | 363  | 576  | 322  | 645  | 626  | 382  | 346  | 499  |

**WATER SUPPLY.**—The following is a summary of the Analytical Results of the water supplied by the Borough of Portsmouth Water Works Company :—

| Date when taken | Where taken from       | Grains per Gallon   |          |                      | Total Hardness | Parts per Million |                    | Poisonous Metals | Remarks.  |
|-----------------|------------------------|---------------------|----------|----------------------|----------------|-------------------|--------------------|------------------|---|
|                 |                        | Total Solid Residue | Chlorine | Nitrogen as Nitrates |                | Free Ammonia      | Albuminoid Ammonia |                  |   |
| 1896<br>Jan. 20 | Corporation Yard       | .. 21.0             | 1.3      | 0.140                | 16.1           | 0.02              | 0.02               | Absent           | Pale greenish brown in colour, no deposit             |
| Feb. 17         | „ „                    | .. 21.4             | 1.4      | 0.156                | 16.3           | 0.01              | 0.02               | Do.              | Greenish brown, slight deposit of sand                |
| Mar. 16         | „ „                    | .. 20.8             | 1.6      | 0.175                | 15.3           | 0.01              | 0.02               | Do.              | Light green, no deposit                               |
| April 20        | „ „                    | .. 21.7             | 1.1      | 0.157                | 17.1           | 0.01              | 0.01               | Do.              | Clear, slight sandy deposit                           |
| May 19          | Corporation Laboratory | 22.2                | 1.3      | 0.100                | 16.9           | 0.01              | 0.00               | Do.              | Clear, greyish in colour, very slight deposit of sand |
| Sep. 7          | Corporation Yard       | .. 21.4             | 1.5      | 0.195                | 17.0           | 0.015             | 0.03               | Do.              | Clear, greenish tint, no deposit                      |
| Sep. 14         | „ „                    | .. 24               | 1.2      | 0.249                | 15.0           | 0.02              | 0.035              | Do.              | Clear, slight sandy deposit, faint yellowish tinge    |
| Sep. 28         | „ „                    | .. 25               | 1.4      | 0.12                 | 16.0           | 0.02              | 0.06               | Do.              | ....  |
| Oct. 12         | „ „                    | .. 24               | 1.3      | 0.20                 | 16.0           | 0.02              | 0.07               | Do.              | ....  |
| Nov. 16         | „ „                    | .. 25               | 1.5      | 0.19                 | 16.0           | 0.02              | 0.065              | Do.              | ....  |
| Dec. 14         | Technical Institute    | .. 26               | 1.4      | 0.21                 | 16.0           | 0.019             | 0.07               | Do.              | Not as clear as usual                                 |



**HOUSES UNFIT FOR HABITATION.**—Thirteen Houses have been certified to be unfit for human habitation, and these have, upon such certificates, been declared unfit by the Sanitary Authority. I have also written 21 letters, referring to 42 houses, calling upon the owners of insanitary property to remedy the defects, and informing them that unless this was done it would be my duty to certify the property as unfit for human habitation.

**PREMISES CONDEMNED IN 1896.**

| Situation of Premises.    | Date.          |
|---------------------------|----------------|
| 90, Charlotte Street ...  | January 21st   |
| 33, Marlborough Row ...   | Do.            |
| House at rear of do. ...  | Do.            |
| 1, White's Court ...      | February 18th  |
| 2, White's Court ...      | Do.            |
| 18, Church Path North ... | Do.            |
| 34, Brighton Street ...   | Do.            |
| 9, Paradise Street ...    | Do.            |
| 31, Paradise Street ...   | Do.            |
| 4, Matrimony Street ...   | Do.            |
| 1, Steel Street ...       | May 19th       |
| 3, Steel Street ...       | Do.            |
| 90, Kingston Road ...     | Do.            |
| 92, do. ...               | Do.            |
| 94, do. ...               | Do.            |
| 46, Voller Street ...     | September 15th |

**PROSECUTIONS** —Twenty prosecutions have been instituted under the Public Health Act, and evidence given by me where necessary. The following is the result of the prosecutions :—

| INITIALS | CHARGE                              | RESULT OF PROSECUTION.  |
|----------|-------------------------------------|---|
| J. H.    | Non-compliance with Nuisance Notice | Order to abate nuisance in 14 days and pay costs—13s. 6d.                 |
| T.W.Q.   | Do.                                 | Withdrawn on costs (5s. 6d.) being paid, work being done                  |
| J. G. R. | Do.                                 | Withdrawn, work done  |
| F. S.    | Do.                                 | Order to abate nuisance in 14 days and pay costs—13s. 6d.                 |
| W. J.    | Do.                                 | Withdrawn, work done  |
| G. L.    | Do.                                 | Withdrawn, work done  |
| R. J. T. | Do.                                 | Order to abate nuisance in 14 days and pay costs—9s.                      |
| J. T. F. | Do. (11 cases)                      | Order to abate nuisance in 14 days in each case, and pay costs—£6 2s. 6d. |
| J. S. C. | Do.                                 | Withdrawn, work done  |
| H. H.    | Do.                                 | Order to abate nuisance in 14 days and pay costs—15s. 6d.                 |

**SLAUGHTER HOUSES.**—Until we are possessed of a public abattoir it will be impossible to supervise in an adequate manner the slaughter of animals used for food in this Borough, this is a matter in which English towns are much behind those on the Continent. There are no fewer than 172 registered slaughter houses in various parts of the town, of which 115 are in actual use, and these are scattered so far that it is impossible, with our limited number of inspectors, to have the control over our meat supply that is desirable. As much as is possible has been done, and 4,366 visits have been paid, but in spite of all we can do I am far from satisfied as to the manner in which a large number of slaughter houses are kept. Another great advantage which would accrue from the use of a public abattoir would be the doing away of the accumulation of offal in various parts of the town, and its cartage through the streets during the morning. If the public would only grasp how important it is for their health to have the meat supply under proper control, the abattoir would soon follow as a matter of course, but until they have got over this indifference I am afraid not much can be done.

**INSPECTION OF WORKSHOPS**—Has been effectively carried out by Inspector Benjamin. The supervision exercised by the Sanitary Authority over Workshops is an important factor in the well-being of a number of our working classes.

**COWSHEDS, DAIRIES AND MILK SHOPS.**—There are 217 milk shops, cowsheds and dairies in the Borough, including 29 sheds where cows are kept, all of which have been regularly inspected, 1,875 visits having been made.

**REFUSE DESTRUCTOR.**—In my predecessor's report for last year the following occurs: "This subject, which has been talked of for many years now, seems within the realm of practical politics; it has been considered by the Sanitary



Committee frequently, and the results of their deliberations will be reported to the Council shortly, it is hoped." I am sorry to have to report that the Destructor is still a thing of the future for Portsmouth. I feel most strongly that until an effective destructor is erected, an important factor in the health and well-being of the Borough is being neglected, for the time has past when a large town can afford to dispose (?) of its refuse by dumping it down in various places. Wherever a refuse heap is erected I receive large numbers of letters from indignant, and justly indignant, residents in the neighbourhood, complaining bitterly of the intolerable nuisances of flies, dust and smells to which they are subject, from which they naturally look to the Sanitary Authority to protect them. A borough can no more afford to trifle with its health than an individual, and as certainly as we establish these heaps of dirt and refuse about the town shall we assuredly reap ill health and disease in the future. I trust that before I present my next report a more scientific method of refuse disposal may be an established fact.

**THE SYSTEMATIC INSPECTION OF THE BOROUGH**—Has been specially attended to by your Inspectors and myself. Particulars as to the various nuisances attended to will be found in the Chief Inspector's Report, from which it will be seen that a far larger number of drains have been tested during this, than in any previous year. I would respectfully call your attention to the fact that owing to the very rapid increase of the Borough another Inspector is urgently needed.

In connection with the inspection of houses I am sorry that the Bye-Laws for Houses let in Lodgings, recommended for adoption, were referred back by the Town Council; had they been passed our supervision of a large number of houses inhabited by the lower class would have been rendered more complete. There are many houses the rooms of which are let out singly to families, the consequence is that the condition of

many of these rooms, which are occupied by some of our very lowest classes, is filthy in the extreme, and beyond serving notices to cleanse, &c., which are tardily complied with, we have not much power to effect an improvement. Were the Bye-Laws in force we could then among other things see that there should be a sufficient number of water-closets for the inmates ; that the courts and ashpits should be kept clean ; that ventilation should be efficient ; and that the house should be thoroughly cleaned once a year. These and other precautions are all very necessary, and while they should be strictly enforced in some houses, other houses, though they might come within the scope of the Bye-Laws, which are occupied by respectable and clean, although poor people, would not be interfered with, but we should have the power of greatly improving the class of house which may be described as only a step above the common lodging house. I trust that at any early date you will ask the Town Council to reconsider their former decision in this matter.

# TABLE XXV.

Table of Deaths during the Year 1896, in the Portsmouth Urban Sanitary District, classified according to Diseases, Ages, and Localities.

| Names of Localities adopted for the purpose of these Statistics; public institutions being shown as separate localities | Mortality from all Causes, at Subjoined Ages. |              |               |                |                 |                 |                | Mortality from subjoined Causes, distinguishing Deaths of Children under Five Years of Age. |         |         |         |         |                    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |
|---|---|--------------|---------------|----------------|-----------------|-----------------|----------------|---|---------|---------|---------|---------|--------------------|-----------|-----------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | At all ages                                   | Under 1 year | 1 and under 5 | 5 and under 15 | 15 and under 25 | 25 and under 65 | 65 and upwards | 1   | 2       | 3       | 4       | Fevers  |                    |           |           |           | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      |         |
|   |   |              |               |                |                 |                 |                |   |         |         |         | Typhus  | Enteric or Typhoid | Continued | Relapsing | Puerperal |         |         |         |         |         |         |         |         |         |         |         |
|   |   |              |               |                |                 |                 |                |   |         |         |         |         |                    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |
| Under 5   | Under 5                                       | Under 5      | Under 5       | Under 5        | Under 5         | Under 5         | Under 5        | Under 5   | Under 5 | Under 5 | Under 5 | Under 5 | Under 5            | Under 5   | Under 5   | Under 5   | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 | Under 5 |
| Portsmouth  | 83  | 18           | 13            | 3              | 2               | 27              | 20             | ..  | ..      | ..      | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | ..      | 2       | 15      | 31      |         |
| Portsea   | 200   | 57           | 31            | 5              | 14              | 53              | 40             | ..  | ..      | 3       | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 1       | 6       | 27      | 52      |         |
| Kingston  | 936   | 308          | 117           | 44             | 42              | 197             | 228            | ..  | 3       | ..      | 2       | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 3       | 58      | 112     | 88      |         |
| Landport  | 1090  | 333          | 167           | 36             | 48              | 249             | 257            | ..  | 5       | 4       | 2       | ..      | ..                 | 69        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 9       | 161     | 425     | 511     |         |
| Southsea  | 203   | 20           | 10            | 3              | 13              | 61              | 96             | ..  | 2       | ..      | ..      | ..      | ..                 | 67        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 20      | 274     | 500     | 590     |         |
| Naval & Military Barracks, Ships in Harbour, &c.  | 56  | 15           | 10            | 1              | 10              | 20              | ..             | ..  | 1       | ..      | ..      | ..      | ..                 | 1         | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 2       | 20      | 30      | 173     |         |
| Infectious Diseases Hospital  | 24  | ..           | 11            | 7              | 2               | 4               | ..             | ..  | 5       | 4       | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | ..      | ..      | ..      | 11      | 13      |
| Portsea Island Union..  | 290   | 23           | 5             | 3              | 11              | 86              | 162            | ..  | 6       | ..      | ..      | ..      | ..                 | 3         | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 5       | 22      | 187     | 262     | 28      |
| Borough Asylum  | 64  | 1            | ..            | ..             | 7               | 39              | 17             | ..  | 1       | ..      | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | ..      | ..      | 41      | 63      | 1       |
| Portsmouth & Gosport Hospital   | 72  | ..           | 8             | 5              | 6               | 36              | 17             | ..  | ..      | ..      | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | 6       | 1       | 41      | 64      | 8       |
| Nazareth Home   | 12  | ..           | 1             | 2              | ..              | 1               | 8              | ..  | ..      | ..      | ..      | ..      | ..                 | ..        | ..        | ..        | ..      | ..      | ..      | ..      | ..      | ..      | ..      | ..      | 1       | 7       | 11      |



# TABLE XXVI.

Table of Population, Births, and of New Cases of Infectious Sickness, coming to the knowledge of the Medical Officer of Health, during the year 1896, in the Portsmouth Urban Sanitary District; classified according to Diseases, Ages and Localities.

| Names of Localities<br>adopted for the<br>purpose of these<br>Statistics; Public<br>Institutions being<br>shown as separate<br>localities | Population<br>at all Ages | Registered Births | Aged<br>under 5<br>or<br>over 5 | New Cases of Sickness in each Locality,<br>coming to the knowledge of the<br>Medical Officer of Health. |   |   |   |    |    |    |    |        |                       |           |           | Number of such Cases Removed from their Homes in the<br>several Localities for treatment in Isolation Hospital. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |         |            |         |           |            |            |                     |        |                       |           |           |           |         |            |         |                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|---|---------------------------|-------------------|---------------------------------|---|---|---|---|----|----|----|----|--------|-----------------------|-----------|-----------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|---------|------------|---------|-----------|------------|------------|---------------------|--------|-----------------------|-----------|-----------|-----------|---------|------------|---------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--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|   |                           |                   |                                 |   |   |   |   |    |    |    |    | Typhus | Enteric or<br>Typhoid | Continued | Relapsing |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Puerperal | Cholera | Erysipelas | Measles | Small Pox | Scarlatina | Diphtheria | Membranous<br>Group | Typhus | Enteric or<br>Typhoid | Continued | Relapsing | Puerperal | Cholera | Erysipelas | Measles | Other Diseases |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| Portsmouth  | 6839                      | ..                | Under 5<br>5 upwards            | ..  | 4 | 2 | 1 | .. | .. | .. | .. | ..     | ..                    | ..        | ..        | ..  | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..        | ..      | ..         | ..      | ..        | ..         | ..         | ..                  | ..     | ..                    | ..        | ..        | ..        | ..      | ..         | ..      | ..             | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

## Port Sanitary Authority.

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GENTLEMEN,

During the year 8,101 vessels have arrived at this port ; they have been boarded and inspected by Mr. Meades, the Port Sanitary Inspector, and some of the vessels have been seen by me.

5,646 arrived from the Solent ; 2,101 British vessels coastwise ; 275 British vessels from foreign ports.

The nationalities of the foreign vessels entering the port were as follows :—

|           |     |    |         |     |    |
|-----------|-----|----|---------|-----|----|
| French    | ... | 23 | Danish  | ... | 11 |
| German    | ... | 13 | Dutch   | ... | 4  |
| Norwegian | ... | 15 | Swedish | ... | 2  |
| Russian   | ... | 11 |         |     |    |

Great care was taken during the year to prevent cholera or the “ plague ” from being brought into the town, and precautionary measures were taken in the event of an outbreak, but I am pleased to say that no case was reported to me.

I am, Gentlemen,

Your obedient servant,

**A. MEARNS FRASER,**

*Medical Officer of Health to the Port Sanitary Authority.*

# Report of the Chief Inspector of Nuisances

FOR THE YEAR 1896.

## NOTICES SERVED.

|            |                             |   |   |     |
|------------|-----------------------------|---|---|-----|
| To Cleanse | Cellar                      | - | - | 1   |
| „          | Cesspits                    | - | - | 24  |
| „          | Dwellinghouses              | - | - | 167 |
| „          | Bakehouses                  | - | - | 28  |
| „          | Slaughterhouses             | - | - | 38  |
| „          | Common Lodging Houses       | - | - | 6   |
| „          | Cowshed                     | - | - | 1   |
| „          | Workshops                   | - | - | 50  |
| „          | Laundries                   | - | - | 16  |
| „          | Drains                      | - | - | 407 |
| „          | Water Closets and Pans      | - | - | 102 |
| „          | Yards, Stables, Sties, etc. | - | - | 69  |
| „          | Dead Well                   | - | - | 1   |
| „          | Filthy Bedding              | - | - | 1   |
| „          | Spouting                    | - | - | 10  |
| To Remove  | Animals                     | - | - | 4   |
| „          | Manure                      | - | - | 72  |
| „          | Refuse                      | - | - | 64  |
| „          | Rags                        | - | - | 61  |
| „          | Stagnant Water              | - | - | 7   |
| „          | Human Excrement             | - | - | 9   |
| „          | Bones                       | - | - | 4   |
| „          | Offal                       | - | - | 1   |
| To Repair  | Cellar Coverings            | - | - | 7   |
| „          | Drains                      | - | - | 785 |
| „          | Soil Pipes                  | - | - | 13  |
| „          | Rain Water Spouts           | - | - | 146 |
| „          | Water Closets               | - | - | 13  |



|                    |   |   |       |      |
|--------------------|---|---|-------|------|
| To Repair          | Urinal  | - | -     | 1    |
| „                  | Water Closet Fittings                                   | - | -     | 89   |
| „                  | Dwellinghouses  | - | -     | 94   |
| „                  | Rain Water Tank   | - | -     | 1    |
| „                  | Sanitary Defects in Dwellinghouses                      |   |       | 1449 |
| „                  | Sanitary Defects in Workshops                           | - |       | 95   |
| „                  | Sanitary Defects in Dairies, Cowsheds,<br>and Milkshops | - | -     | 7    |
| To Construct       | Smoke Consuming Apparatus                               | - |       | 22   |
| „                  | Yard Traps  | - | -     | 2    |
| „                  | Rain Water Spouting                                     | - |       | 12   |
| To Provide         | New Water Closet Pans                                   | - |       | 5    |
| „                  | Scullery Sinks  | - | -     | 2    |
| „                  | Extra W.C. Accommodation                                | - |       | 1    |
| To Repave          | Yards, Stables, Sties, etc.                             | - |       | 553  |
| To Ventilate       | Drains  | - | -     | 48   |
| To Raise or Repair | Ventilating Shafts                                      | - |       | 42   |
| To Ventilate       | Workshops   | - | -     | 1    |
| To Drain           | Yards, Stables, and Sties                               | - |       | 8    |
| To Comply with     | Slaughterhouse Bye-Laws                                 | - |       | 14   |
| To Comply with     | Nuisances' Bye-Laws                                     | - |       | 8    |
| To Disconnect      | Rain Water Pipe from Drain                              | - |       | 1    |
| To Disconnect      | Waste Pipes from Soil Pipes                             | - |       | 4    |
| To Tank            | Manure Pits   | - | -     | 3    |
| To Fill in         | Dead Wells  | - | -     | 2    |
| To Lay on          | Water to Dwellinghouses                                 | - |       | 4    |
| To Connect         | Premises with Main Sewer                                | - |       | 8    |
| To Discontinue     | Overcrowding in Tents and Vans                          |   |       | 25   |
| „                  | „   |   |       | 25   |
| „                  | „   |   |       | 26   |
|                    |   |   |       |      |
|                    |   |   | Total | 4599 |

# NUISANCES REMOVED.

|          |   |   |          |   |     |
|----------|---|---|----------|---|-----|
| Cesspits | - | - | Cleansed | - | 90  |
| Drains   | - | - | „        | - | 498 |
| Cellars  | - | - | „        | - | 3   |

|                                    |   |                                     |   |      |
|------------------------------------|---|-------------------------------------|---|------|
| Slaughterhouses                    | - | Cleansed                            | - | 42   |
| Dwellinghouses                     | - | "                                   | - | 153  |
| Common Lodging Houses              | - | "                                   | - | 6    |
| Bakehouses                         | - | "                                   | - | 23   |
| Workshops                          | - | "                                   | - | 37   |
| Laundries                          | - | "                                   | - | 21   |
| Dairies, Cowsheds, and Milkshops   |   | "                                   | - | 1    |
| Yards, Stables, and Sties          | - | "                                   | - | 63   |
| Water Closets and Pans             | - | "                                   | - | 112  |
| Filthy Bedding                     | - | "                                   | - | 1    |
| Ditches                            | - | "                                   | - | 3    |
| Rain Water Spouting                | - | "                                   | - | 5    |
| Manure                             | - | Removed                             | - | 66   |
| Animals                            | - | "                                   | - | 4    |
| Refuse                             | - | "                                   | - | 55   |
| Stagnant Water                     | - | "                                   | - | 4    |
| Rags                               | - | "                                   | - | 1    |
| Human Excrement                    | - | "                                   | - | 10   |
| Bones                              | - | "                                   | - | 5    |
| Offal                              | - | "                                   | - | 4    |
| Water Closet Fittings              | - | Repaired                            | - | 85   |
| Water Closets                      | - | "                                   | - | 6    |
| Drains                             | - | "                                   | - | 924  |
| Rain Water Spouts                  | - | "                                   | - | 143  |
| Cellar Coverings                   | - | "                                   | - | 7    |
| Soil Pipes                         | - | "                                   | - | 11   |
| Dwellinghouses                     | - | "                                   | - | 108  |
| Sanitary Defects in Dwellinghouses |   | "                                   | - | 1359 |
| "                                  | " | Workshops                           | " | 92   |
| "                                  | " | Dairies, Cowsheds,<br>and Milkshops | " | 6    |
| Yard Traps                         | - | Constructed                         | - | 4    |
| Smoke Nuisances Abated             | - |                                     | - | 24   |
| Rain Water Spouting                | - | Provided                            | - | 26   |
| New W.C. Pans                      | - | "                                   | - | 5    |
| Scullery Sinks                     | - | "                                   | - | 3    |

|   |   |            |      |
|---|---|------------|------|
| Drains Ventilated                           | - | -          | 76   |
| Ventilating Shafts Raised or Repaired       | - | -          | 38   |
| Laundries                                   | - | Ventilated | 2    |
| Water Closet                                | - | „          | 1    |
| Water Laid On to Dwellinghouses             | - | -          | 6    |
| Premises Connected with Main Sewer          | - | -          | 68   |
| Yards, Stables, Sties, etc., Paved          | - | -          | 547  |
| Rain Water Pipes Disconnected from Drain    | - | -          | 1    |
| Waste Pipes Disconnected from Soil Pipes    | - | -          | 5    |
| Stables Drained                             | - | -          | 7    |
| Dead Wells Filled in                        | - | -          | 2    |
| Overcrowding Discontinued in Dwellinghouses | - | -          | 20   |
| „ „ Workshops                               | - | -          | 29   |
| „ „ Vans and Tents                          | - | -          | 26   |
| Slaughterhouse Bye-Laws Complied with       | - | -          | 13   |
| Nuisance „ „                                | - | -          | 6    |
| Common Lodging House Bye-Laws Complied with | - | -          | 1    |
| Total                                       |   |            | 4858 |

The following Articles of Food have been seized by the Inspectors, or given up by the owners for the purpose of destruction, as unfit for the Food of Man, viz. :—

|                  |   |   |   |           |
|------------------|---|---|---|-----------|
| Carcases of Beef | - | - | - | 7         |
| „ Pigs           | - | - | - | 11        |
| „ Sheep          | - | - | - | 3         |
| Colonial Beef    | - | - | - | qr. 1     |
| Corned Beef      | - | - | - | cwt. 1½   |
| Pieces of Beef   | - | - | - | lbs. 30   |
| Pork Chines      | - | - | - | cwt. 2    |
| Rabbits          | - | - | - | 18        |
| Bloaters         | - | - | - | Boxes 464 |
| Kippers          | - | - | - | „ 79      |
| Haddock          | - | - | - | „ 76      |



|               |   |   |   |                     |     |
|---------------|---|---|---|---------------------|-----|
| Mackerel      | - | - | - | tons                | 2   |
| „             | - | - | - | Boxes               | 2   |
| Whiting       | - | - | - | cwt.                | 8   |
| Bream         | - | - | - | Boxes               | 7   |
| Mixed Fish    | - | - | - | Kits                | 6   |
| Escalops      | - | - | - | Bag                 | 1   |
| Dog-fish      | - | - | - | Boxes               | 5   |
| Shrimps       | - | - | - | Box                 | 1   |
| Winkles       | - | - | - | Bags                | 7   |
| Crabs         | - | - | - |                     | 18  |
| Salmon        | - | - | - |                     | 4   |
| Salt Cod Fish | - | - | - | cwt.                | 1   |
| Mullet        | - | - | - | Boxes               | 3   |
| Trout         | - | - | - | Box                 | 1   |
| Oranges       | - | - | - |                     | 600 |
| Lemons        | - | - | - | Cases, 400 in each, | 6   |
| Cherries      | - | - | - | Baskets             | 75  |
| Tomatoes      | - | - | - | Bushel              | 1   |
| Pears         | - | - | - | Cases               | 40  |

### INSPECTION.

During the year 4,599 Notices were served to abate Nuisances, and 4,858 Nuisances were removed.

7,725 Dwelling-houses were inspected.

4,365 Slaughter-house visits have been made.

1,875 Visits have been made to the various Dairies, Cowsheds and Milk Shops.

1,172 Visits have been paid to the Common Lodging Houses, of which 419 were late night Visits.

2,384 Visits were made to the different Bakehouses.

4,295 Visits were made by the Workshop Inspector (Inspector Benjamin) to the various Workshops.

1,040 Complaints have been made at the Office relative to Nuisances, and received attention.

## **INFECTIOUS DISEASES.**

During the year 2,001 Cases of Infectious or Zymotic Diseases have been visited and investigated.

## **FOOD AND DRUGS' ACT.**

During the year 157 samples of Food and Drugs have been obtained by the Inspector, and submitted to the Public Analyst for analysis.

## **DRAINS.**

I have to report that a far larger number of Drains have been tested during the year than in any previous year. No less than 5,891 Drains have been tested, and re-tested on repair, the number found defective amounted to 2,844 or 48·2 per cent. The "water test" has been applied to repaired Drains wherever practicable, and especially where Drains pass under houses, such Drains being laid on and covered with concrete.

The Drains of the following Board Schools have been relaid, and tested by the "water test" under the superintendence of your Inspectors, viz.: Milton, Binstead Road, Wellington Place, Flying Bull Lane, Conway Street and Omega Street.

At the request of the Guardians the whole of the Drainage of the Portsea Island Union Workhouse and out-buildings were examined, and the various defects found to exist, reported upon.

## **PROSECUTIONS AND FINES.**

*Public Health Act, 1875.*

Proceedings were instituted in 20 Cases against owners of property under the above Act, for non-compliance with Notices to abate Nuisances.

Orders were made by the Court in 15 Cases for the abatement of the Nuisances, and the Costs amounting to £8 19s. 6d. imposed, and the remaining Cases were withdrawn on the work being carried out to the satisfaction of the Authority.

*Food and Drugs' Acts :—*

Proceedings were also taken against 11 Purveyors of Milk for adulteration.

Fines and Costs amounting to £14 8s. 6d. were inflicted in 8 Cases, the 3 remaining cases being dismissed.

I am, Gentlemen,

Your obedient Servant,

**FRED L. BELL,**

*Cert. San. Inst.,  
Chief Inspector of Nuisances.*



# Contagious Diseases (Animals') Act.

## INSPECTOR'S REPORT

*FOR THE YEAR ENDING DECEMBER 31st, 1896.*

### INSPECTION OF CATTLE.

The undermentioned cattle have been inspected during the year, the majority arriving at the Railway Station from various markets and other places.

|        |      |     |        |
|--------|------|-----|--------|
| Beasts | ...  | ... | 8,958  |
| Sheep  | ...  | ... | 52,199 |
| Calves | ...  | ... | 5,298  |
| Pigs   | .... | ... | 19,814 |
| Total  |      |     | 86,269 |

**INSPECTION OF CATTLE TRUCKS, ETC.**—2,650 cattle trucks, 1,193 horse boxes, and 405 tow boats have been inspected, and in every case I found them thoroughly cleansed and lime-washed, as required by the act.

**SWINE FEVER.**—There have only been four outbreaks of this disease during the year, but a large number of suspicious cases have come to my notice. Prompt action in dealing with these cases has prevented further outbreaks.

The marked decrease of outbreaks and general improvement in the condition of pigs in the Borough is due mainly to the prompt actions taken by the Board of Agriculture, and the destruction of old sties, the sites being properly deoderized, and sties rebuilt according to Sanitary instructions; also by the owners following my advice regarding selection and rearing of pigs.

**RABIES.**—In the beginning of the year a number of dogs were seized under the Dogs' Act, 1871, giving the police power to detain any stray dogs. On 28th May, 1896, the Rabies Order of 1895 was put into force by the Local Authority at the request of the Board of Agriculture, which gave power to the police to detain any unmuzzled dogs except those wearing collars with the name and address of owner engraved thereon. The number of dogs seized by the police during the year was 721, of which 495 were destroyed, and 226 were either sold or returned to their respective owners on payment of expenses. Many suspicious cases have been reported to me during the year, but on examination they were found to be free from rabies, but suffering from either mange, distemper, or teething.

**OTHER DISEASES.**—During the year my attention has been called to several supposed cases of contagious diseases in horses and cows; but on examination and isolation, no contagion became apparent.

**PROSECUTIONS.**—I am pleased to state that during the year no prosecutions have been instituted for any infringement of this act.

Although such a marked decrease of diseases and general improvement in all the classes of animals throughout this Borough is noticeable, the duties have greatly increased.

I find Mr. W. H. Turner a very efficient officer in assisting me to carry out these duties, which require our strictest care and attention.

I am, Gentlemen,

Your obedient servant,

**G. W. MONKCOM,**

*Inspector under the Contagious Diseases (Animals') Act.*

# Report of the Public Analyst

FOR THE

Year ending December 31st, 1896.

J. MOORE MURRAY, M.Sc., F.C.S.,

*Public Analyst.*

TOWN HALL, PORTSMOUTH,

JANUARY 31ST, 1897.



## Report of the Public Analyst

FOR THE YEAR ENDING DECEMBER 31ST, 1896.

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*To the Chairman and Members of the Finance Committee.*

GENTLEMEN,

During the year 1896, 167 samples of food and drugs were analysed, of which number 157 were taken by your Inspectors, and 10 submitted by private individuals.

Taking the population of Portsmouth (in 1896) as 178,639, the number of samples of all kinds taken in the year is equivalent to one for every 1,063 persons.

Of the total number of samples, 33, or 19·76 per cent were found adulterated. The percentage of adulterated articles taken by the Inspectors was 17·85, and the percentage of articles adulterated submitted by private individuals was 50·0.

From the returns published by the Local Government Board, it appears that of the 43,962 samples analysed in 1895, 43,795 were obtained by the officers of local authorities, of which 4,093 or 9·3 per cent were found adulterated; and only 167 were taken by private purchasers, and of these as many as 60 or 35·9 per cent were condemned. From these facts it may be concluded that the officers of the local authorities become known to the vendors of adulterated articles, who are thus prepared to supply them with genuine samples, whilst they sell adulterated articles to an indifferent public. The fixed charge for the analysis of private samples is so small (2s. 6d.) that it is difficult to understand why the public refuse the opportunity of protecting themselves from unscrupulous tradesmen.

The following is a list of samples analysed :—

|              |     |     |     |     |     |    |
|--------------|-----|-----|-----|-----|-----|----|
| Milk         | ... | ... | ... | ... | ... | 84 |
| Butter       | ... | ... | ... | ... | ... | 18 |
| Coffee       | ... | ... | ... | ... | ... | 14 |
| Pepper       | ... | ... | ... | ... | ... | 12 |
| Arrowroot    | ... | ... | ... | ... | ... | 2  |
| Vinegar      | ... | ... | ... | ... | ... | 7  |
| Whiskey      | ... | ... | ... | ... | ... | 18 |
| Rum          | ... | ... | ... | ... | ... | 3  |
| Gin          | ... | ... | ... | ... | ... | 1  |
| Sal Volatile | ... | ... | ... | ... | ... | 6  |
| Hop Ale      | ... | ... | ... | ... | ... | 1  |
| Cordial      | ... | ... | ... | ... | ... | 1  |

### TABLE

Showing the number of Samples Analysed during the  
last Ten Years.

| Year. | Total | Milk | Butter | Bread<br>and<br>Flour | Groc-<br>eries | Wines<br>and<br>Spirits | Drugs | Sun-<br>dries | No. of Samples<br>found<br>Adulterated. |
|-------|-------|------|--------|-----------------------|----------------|-------------------------|-------|---------------|---|
| 1887  | 169   | 143  | 5      | ...                   | 7              | 8                       | ...   | 6             | 35                                      |
| 1888  | 200   | 106  | 42     | ...                   | 34             | 9                       | ...   | 9             | 17                                      |
| 1889  | 206   | 102  | 11     | 5                     | 64             | 22                      | ...   | 1             | 35                                      |
| 1890  | 187   | 121  | 25     | 1                     | 33             | 7                       | ...   | ...           | 16                                      |
| 1891  | 206   | 110  | 11     | 11                    | 48             | 25                      | ...   | 1             | 40                                      |
| 1892  | 203   | 124  | 24     | 6                     | 24             | 18                      | ...   | 7             | 30                                      |
| 1893  | 218   | 141  | 9      | 10                    | 12             | 14                      | ...   | 32            | 31                                      |
| 1894  | 238   | 126  | 28     | 1                     | 18             | 20                      | 10    | 35            | 27                                      |
| 1895  | 257   | 165  | 33     | 3                     | 30             | 18                      | 8     | ...           | 38                                      |
| 1896  | 168   | 84   | 18     | ...                   | 28             | 22                      | 6     | 10            | 33                                      |

During the year I have also analysed for the Police Authorities a sample of tea and a white powder, which were suspected of containing poison ; and during the regretted illness of the Medical Officer of Health, I have made the monthly analysis of water supplied to the town.

The following table shows the number of adulterated, inferior and genuine samples, with the totals, and the number and names of those of each kind.

| Article          | Sent in by |                | Adulterated |                | Inferior  |                | Genuine   |                | Totals |
|------------------|------------|----------------|-------------|----------------|-----------|----------------|-----------|----------------|--------|
|                  | Inspector  | Private Person | Inspector   | Private Person | Inspector | Private Person | Inspector | Private Person |        |
| Milk ...         | 80         | 4              | 18          | 2              | 7         | ...            | 55        | 2              | 84     |
| Butter ...       | 15         | 3              | 1           | 1              | ...       | ...            | 14        | 2              | 18     |
| Coffee ...       | 14         | ...            | 1           | ...            | ...       | ...            | 13        | ...            | 14     |
| Pepper ...       | 12         | ...            | ...         | ...            | ...       | ...            | 12        | ...            | 12     |
| Vinegar ...      | 6          | 1              | 3           | ...            | 2         | 1              | 1         | ...            | 7      |
| Sal Volatile ... | 6          | ...            | ...         | ...            | 1         | ...            | 5         | ...            | 6      |
| Whiskey ...      | 18         | ...            | 3           | ...            | 1         | ...            | 14        | ...            | 18     |
| Rum ...          | 3          | ...            | 1           | ...            | 1         | ...            | 1         | ...            | 3      |
| Gin ...          | 1          | ...            | 1           | ...            | ...       | ...            | ...       | ...            | 1      |
| Hop Ale ...      | ...        | 1              | ...         | 1              | ...       | ...            | ...       | ...            | 1      |
| Cordial ...      | ...        | 1              | ...         | 1              | ...       | ...            | ...       | ...            | 1      |
| Arrowroot ...    | 2          | ...            | ...         | ...            | ...       | ...            | 2         | ...            | 2      |
| Totals ...       | 157        | 10             | 28          | 5              | 12        | 1              | 117       | 4              | 167    |

**MILK.**—The samples of milk analysed numbered 84, of which 20 or 23·8 per cent. were adulterated. The returns of the Local Government Board show that in 1895, of the samples of milk analysed throughout the country 11·1 per cent. were



adulterated. The seven samples of milk returned as "inferior" were all under the standard suggested by the witnesses examined by the Royal Commission on food and drugs.

The 57 samples of milk reported as of genuine composition were all of very good quality.

It is still the practice of milk sellers to add preservatives to milk, but in the genuine samples analysed few contained any preservatives. Unless there is an excess of preservative added, the samples are not regarded as adulterated, as it is a question upon which medical experts are not agreed as to whether such preservatives as boric acid are harmful.

**BUTTER.**—Of the 18 samples of butter analysed 2 or 11·1 per cent. were found adulterated. The percentage of samples, taken throughout the country found adulterated in 1895 was 8·2. Most of the samples analysed contained boric acid, but the Local Government Board does not advise such samples to be returned as adulterated.

**COFFEE.**—Only one sample of coffee or 7·1 per cent. of the number analysed was found to be adulterated. The other samples were of very good quality.

**VINEGAR.**—Three out of seven, or 42·8 per cent. of the samples of vinegar analysed were found to be adulterated, and most of the other samples were of very poor quality.

**SPIRITS.**—22·7 per cent. of the samples of spirits analysed were deficient in strength and therefore returned as adulterated. The per cent. found adulterated in the whole of the country in 1895 was 16·5.

The following table shows the action taken in each case of adulteration and the result (if any) of such action :—

| No. | Nature of sample | By whom obtained | Amount of adulteration.         | Remarks.  |
|-----|------------------|------------------|---------------------------------|---|
| 1   | Cordial ...      | Private person   | 1·73 p.c. alcohol ...           | Submitted to Town Clerk.<br>No prosecution.                               |
| 2   | Coffee ...       | Inspector ...    | 5 p.c. chicory ...              |   |
| 3   | Butter ...       | Private person   | 10 p.c. foreign fat ...         |   |
| 4   | Milk ...         | Do.              | 69 p.c. cream extracted         | Submitted to Town Clerk.<br>No prosecution.                               |
| 5   | Hop Ale          | Do.              | 0·99 p.c. alcohol ...           |   |
| 6   | Milk ...         | Inspector ...    | 4 p.c. cream extracted...       |   |
| 7   | Whiskey          | Do. ...          | 27·6 p.c. under proof ...       | Submitted to Town Clerk.<br>No prosecution.                               |
| 8   | Rum ...          | Do. ...          | 25·7 p.c. do. ...               | Submitted to Town Clerk.<br>Card in bar.                                  |
| 9   | Whiskey          | Do. ...          | 39 p.c. do. ...                 | Submitted to Town Clerk.<br>Card in bar.                                  |
| 10  | Whiskey          | Do. ...          | 25·7 p.c. do. ...               | Submitted to Town Clerk.<br>Card in bar.                                  |
| 11  | Milk ...         | Do. ...          | 20 p.c. cream extracted         | Fined £1 and 12s. costs.  |
| 12  | Vinegar ...      | Do. ...          | Sulphuric acid ·09 p.c.<br>So 4 | No prosecution.   |
| 13  | Do. ...          | Do. ...          | Sulphuric acid ·07 p.c.<br>So 4 | Do.   |
| 14  | Do. ...          | Do. ...          | Sulphuric acid ·13 p.c.<br>So 4 | Do.   |
| 15  | Butter ...       | Do. ...          | 36·1 p.c. foreign fat ...       | Fined 27s. and 13s. costs.  |
| 16  | Milk ...         | Do. ...          | 8 p.c. cream extracted...       | Fined 17s. 6d., including costs.  |
| 17  | Do. ...          | Do. ...          | 92 p.c. do. ...                 | Prosecuted—case dismissed, only 1d. charged for milk                      |
| 18  | Do. ...          | Do. ...          | 4 p.c. do. ...                  | Prosecuted—case dismissed.  |
| 19  | Do. ...          | Do. ...          | 4 p.c. do. ...                  | Fined 5s. towards costs.  |
| 20  | Do. ...          | Do. ...          | 8 p.c. do. ...                  | Fined 10s.  |
| 21  | Do. ...          | Do. ...          | 98·8 p.c. do. ...               | Fined £5, or a month's imprisonment.                                      |
| 22  | Do. ...          | Do. ...          | 8 p.c. do. ...                  | Fined 10s. and 12s. costs.  |
| 23  | Do. ...          | Do. ...          | 12 p.c. do. ...                 | Case dismissed.   |
| 24  | Do. ...          | Private person   | 32 p.c. do. ...                 | Fined £2 and £1 2s. costs.<br>Submitted to Town Clerk.<br>No prosecution. |
| 25  | Do. ...          | Inspector ...    | 16 p.c. do. ...                 |   |
| 26  | Do. ...          | Do. ...          | 84 p.c. do. ...                 |   |
| 27  | Whiskey          | Do. ...          | 35·57 p.c. under proof...       | No prosecution—label on bottle.   |
| 28  | Milk ...         | Do. ...          | 13·40 p.c. cream extracted      | Taken in course of delivery at Portsea Island Union.                      |
| 29  | Do. ...          | Do. ...          | 12 p.c. do. ...                 | Case withdrawn. Cork came out of second part.                             |
| 30  | Rum ...          | Do. ...          | 26·20 p.c. under proof...       | No prosecution.   |
| 31  | Gin ...          | Do. ...          | 36·23 do. ...                   | No prosecution—label on bottle.   |
| 32  | Milk ...         | Do. ...          | 36 p.c. cream extracted         | Case withdrawn.   |
| 33  | Do. ...          | Do. ...          | 20 p.c. do. ...                 | No prosecution—cork came out of second part.                              |

**PROSECUTIONS**—Were instituted in 13 Cases, Fines being imposed in 8 Cases.

**FINES.**—From the above table it will be seen that Fines amounting to £11 9s. 6d. were ordered to be paid, and in addition Costs amounting to £2 19s. 0d.

It will be also seen that prosecutions were not instituted in cases where cards were exhibited in the Bar in which the spirits were purchased, and when labels stating the strength of the spirit supplied were fixed to the bottles. I am of opinion that such a defence would not be valid, having regard to the fact that the constitution of Whiskey, Brandy, Rum and Gin is defined by the Amendment Act of 1879, as far as strength is concerned.\*

No. 17.—This case was dismissed by the Magistrates because only one penny was charged, consequently there was no prosecution in Case No. 26.

The Inspector has no control over the charge made for the sample, and does not pay for it until he has received it. If such a defence is valid it will defeat the proper working of the Act, and to prevent this, I think, in cases which are dismissed on account of the low charge for the sample, appeals should be instituted.

In cases where for various reasons it is not deemed advisable to institute proceedings, I would suggest that cautionary letters be addressed by the Town Clerk to the vendors of the adulterated articles. At the same time, this action must not be taken to mean that the Council will refrain from prosecuting in all future cases, which are similar as regards nature and extent of adulteration.

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\*Brentford Petty Sessions, Middlesex County *v.* William Palmer, January 26th, 1897.



I would remind you that I commenced my duties in August, since which time I have analysed 118 samples, of which 23 or 19·4 per cent were found to be adulterated. Prosecutions were instituted in thirteen cases and fines amounting to £11 9s. 6d. were ordered to be paid in addition to costs amounting to £2 19s. 0d.

I have the honor to be, Gentlemen,

Your obedient servant,

**J. MOORE MURRAY,**

*Public Analyst.*



